

EXHIBIT 1

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Production Lines, by Type

Type	Total
CPT Only	186
CDT Only	89
Switched	33
Hybrid	7
Hybrid-Switch	7

Type	Maker	Country	Site	Line
CPT Only	Baoma	China	Changzhou	#1
CPT Only	BDDL	India	New Delhi	#1
CPT Only	Chunghwa	United Kingdom	Mossend	#1
CPT Only	Chunghwa	Malaysia	Selangor	#1
CPT Only	Chunghwa	Malaysia	Selangor	#3
CPT Only	Chunghwa	Malaysia	Selangor	#4
CPT Only	Ekranas	Lithuania	Panevezys	#1
CPT Only	Ekranas	Lithuania	Panevezys	#2
CPT Only	Ekranas	Lithuania	Panevezys	#3
CPT Only	Ekranas	Lithuania	Panevezys	#4
CPT Only	Hitachi	United States	Greenville	#1
CPT Only	Hitachi	United States	Greenville	#2
CPT Only	Hitachi	Japan	Mobara	#4
CPT Only	Hitachi	Japan	Sakura	#1
CPT Only	Hitachi	China	Shenzhen	#1
CPT Only	Hitachi	China	Shenzhen	#2
CPT Only	Hitachi	China	Shenzhen	#3
CPT Only	Hitachi	China	Shenzhen	#4
CPT Only	Hotline	India	Gwalior	#1
CPT Only	Hotline	India	Gwalior	#2
CPT Only	Hotline	India	Gwalior	#3
CPT Only	Irico	China	Xianyang	#1
CPT Only	Irico	China	Xianyang	#3
CPT Only	Irico	China	Xianyang	#4
CPT Only	Irico	China	Xianyang	#5
CPT Only	Irico	China	Xianyang	#7
CPT Only	Irico	China	Xianyang	#8
CPT Only	JCT	India	Chandigarh	#1
CPT Only	JCT	India	Chandigarh	#2
CPT Only	JCT	India	Vadadora	#1
CPT Only	JCT	India	Vadadora	#2
CPT Only	LPD	Germany	Aachen	#1
CPT Only	LPD	Germany	Aachen	#2
CPT Only	LPD	Germany	Aachen	#3
CPT Only	LPD	Spain	Barcelona	#1
CPT Only	LPD	Spain	Barcelona	#2
CPT Only	LPD	Spain	Barcelona	#3
CPT Only	LPD	China	Changsa	#1
CPT Only	LPD	China	Changsa	#2

Type	Maker	Country	Site	Line
CPT Only	LPD	China	Changsa	#3
CPT Only	LPD	Korea	Changwon	H-1
CPT Only	LPD	France	Dreux	#1
CPT Only	LPD	France	Dreux	#2
CPT Only	LPD	France	Dreux	#3
CPT Only	LPD	United Kingdom	Durham	#1
CPT Only	LPD	United Kingdom	Durham	#2
CPT Only	LPD	United Kingdom	Durham	#3
CPT Only	LPD	Mexico	Gomez (Moved From Ottawa)	A
CPT Only	LPD	Mexico	Gomez (Moved From Ottawa)	B/C
CPT Only	LPD	Mexico	Gomez (Moved From Ottawa)	D (D/C)
CPT Only	LPD	Indonesia	Jakarta	#1
CPT Only	LPD	Indonesia	Jakarta	#2
CPT Only	LPD	Korea	Kumi	A
CPT Only	LPD	Korea	Kumi	J
CPT Only	LPD	Korea	Kumi	P
CPT Only	LPD	Korea	Kumi	W
CPT Only	LPD	India	Malanpur	#1
CPT Only	LPD	China	Nanjing	PL1
CPT Only	LPD	China	Nanjing	PL2
CPT Only	LPD	China	Nanjing	PL3
CPT Only	LPD	China	Nanjing	PL4
CPT Only	LPD	China	Nanjing	PL5
CPT Only	LPD	United States	Ottawa	#1
CPT Only	LPD	United States	Ottawa	#2
CPT Only	LPD	United States	Ottawa	#3
CPT Only	LPD	United States	Ottawa	#4
CPT Only	LPD	United States	Ottawa	#5
CPT Only	LPD	United States	Ottawa	#6
CPT Only	LPD	United States	Rauland	#1
CPT Only	LPD	United States	Rauland	#4
CPT Only	LPD	Brazil	Sao Jose Dos Campos	#1
CPT Only	LPD	Brazil	Sao Jose Dos Campos	#2
CPT Only	LPD	Brazil	Sao Jose Dos Campos	#3
CPT Only	LPD	Brazil	Sao Jose Dos Campos	#4
CPT Only	LPD	Brazil	Sao Jose Dos Campos	#6
CPT Only	Mitsubishi	Japan	Kyoto	#1
CPT Only	Mitsubishi	Japan	Kyoto	#2
CPT Only	Mitsubishi	Japan	Kyoto	#3
CPT Only	MTPD	Thailand	Bang Kadi	#2
CPT Only	MTPD	Thailand	Bang Kadi	#6
CPT Only	MTPD	China	Beijing	#3
CPT Only	MTPD	China	Beijing	#4
CPT Only	MTPD	China	Beijing	#5
CPT Only	MTPD	Germany	Esslingen	#1
CPT Only	MTPD	Germany	Esslingen	#2
CPT Only	MTPD	Japan	Fukaya	#3
CPT Only	MTPD	Japan	Himeji	#2

Type	Maker	Country	Site	Line
CPT Only	MTPD	Japan	Himeji	#3
CPT Only	MTPD	United States	Horseheads	#1
CPT Only	MTPD	Indonesia	Jakarta	#1
CPT Only	MTPD	Indonesia	Jakarta	#2
CPT Only	MTPD	Japan	Kiyohara	#1
CPT Only	MTPD	Malaysia	Selangor	#1
CPT Only	MTPD	Malaysia	Selangor	#3
CPT Only	MTPD	Malaysia	Selangor	#5
CPT Only	MTPD	Malaysia	Selangor	#6
CPT Only	MTPD	Japan	Takatsuki	#2
CPT Only	MTPD	United States	Troy	#1
CPT Only	MTPD	United States	Troy	#2
CPT Only	MTPD	United States	Troy	#3
CPT Only	MTPD	United States	Troy	#4
CPT Only	MTPD	Japan	Utsunomiya	#1
CPT Only	Multi-Displays	Czech Republic	Hranice	#1
CPT Only	Multi-Displays	Czech Republic	Hranice	#2
CPT Only	Multi-Displays	Czech Republic	Hranice	#3
CPT Only	Novel	China	Shanghai	#1
CPT Only	Novel	China	Shanghai	#2
CPT Only	Novel	China	Shanghai	#3
CPT Only	Novel	China	Shanghai	#4
CPT Only	Novel	China	Shanghai	#5
CPT Only	Orion	Vietnam	Hanoi	#1
CPT Only	Orion	Vietnam	Hanoi	#2
CPT Only	Orion	Korea	Kumi	#1(ORICO-8)
CPT Only	Orion	Korea	Kumi	#2(ORICO-11)
CPT Only	Orion	Korea	Kumi	BSC
CPT Only	Orion	Korea	Kumi	BSF
CPT Only	Orion	Korea	Kumi	BSL
CPT Only	Orion	France	Longwy	#1
CPT Only	Orion	Mexico	Mexicali	#1
CPT Only	Rct	Brazil	Sao Paulo	#1
CPT Only	Samtel	India	Ghaziabad	#1
CPT Only	Samtel	India	Ghaziabad	#2
CPT Only	Samtel	India	Ghaziabad	#4
CPT Only	Samtel	India	Kota	#5
CPT Only	SDI	Germany	Berlin	#1
CPT Only	SDI	Germany	Berlin	#2
CPT Only	SDI	Korea	Busan	#7
CPT Only	SDI	Korea	Busan	#8
CPT Only	SDI	Hungary	Hungary	#1
CPT Only	SDI	Hungary	Hungary	#2
CPT Only	SDI	Malaysia	Sembilan	#1
CPT Only	SDI	Malaysia	Sembilan	#2
CPT Only	SDI	Malaysia	Sembilan	#3
CPT Only	SDI	China	Shenzhen	#1
CPT Only	SDI	Korea	Suwon	#6

Type	Maker	Country	Site	Line
CPT Only	SDI	China	Tianjin	#1
CPT Only	SDI	China	Tianjin	#3
CPT Only	SDI	Mexico	Tijuana	#1
CPT Only	SDI	Mexico	Tijuana	#2
CPT Only	Sony	United Kingdom	Bridgend	#1
CPT Only	Sony	United Kingdom	Bridgend	#2
CPT Only	Sony	United Kingdom	Bridgend	#3
CPT Only	Sony	Japan	Inazawa	#5
CPT Only	Sony	Japan	Mizunami	#2
CPT Only	Sony	United States	Pittsburgh	#1
CPT Only	Sony	United States	Pittsburgh	#2
CPT Only	Sony	United States	San Diego	#1
CPT Only	Sony	United States	San Diego	#2
CPT Only	Sony	United States	San Diego	#3
CPT Only	Sony	China	Shanghai	#1
CPT Only	Sony	China	Shanghai	#3
CPT Only	Sony	Singapore	Tuas	#2
CPT Only	Sony	Singapore	Tuas	#3
CPT Only	Tesla	Czech Republic	Roznov	#1
CPT Only	Tesla	Czech Republic	Roznov	#2
CPT Only	Thai-CRT	Thailand	Chonburi	#1
CPT Only	Thai-CRT	Thailand	Chonburi	#2
CPT Only	Thai-CRT	Thailand	Chonburi	#3
CPT Only	Thai-CRT	Thailand	Chonburi	#4
CPT Only	Thomson	United States	Marion	#1
CPT Only	Thomson	United States	Marion	#2
CPT Only	Thomson	United States	Marion	#3
CPT Only	Thomson	United States	Marion	#4
CPT Only	Thomson	United States	Marion	#5
CPT Only	Thomson	Mexico	Mexico City	#1
CPT Only	Thomson	United States	Scranton	#1
CPT Only	Thomson	United States	Scranton	#2
CPT Only	Videocon	Italy	Anagni	#1
CPT Only	Videocon	Italy	Anagni	#2
CPT Only	Videocon	Italy	Anagni	#3
CPT Only	Videocon	Italy	Anagni	#4
CPT Only	Videocon	China	Dongguan	#1
CPT Only	Videocon	China	Dongguan	#2
CPT Only	Videocon	China	Dongguan	#3
CPT Only	Videocon	China	Foshan	#1
CPT Only	Videocon	China	Foshan	#2
CPT Only	Videocon	United States	Marion	#1
CPT Only	Videocon	United States	Marion	#2
CPT Only	Videocon	United States	Marion	#3
CPT Only	Videocon	United States	Marion	#4
CPT Only	Videocon	United States	Marion	#5
CPT Only	Videocon	Mexico	Mexicali	#1
CPT Only	Videocon	Mexico	Mexicali	#2

Type	Maker	Country	Site	Line
CPT Only	Videocon	Poland	Piaseczno	#1
CPT Only	Videocon	Poland	Piaseczno	#2
CPT Only	Videocon	Poland	Piaseczno	#3
CDT Only	Chunghwa	China	Fuzhou	#1
CDT Only	Chunghwa	China	Fuzhou	#2
CDT Only	Chunghwa	China	Fuzhou	#5
CDT Only	Chunghwa	China	Fuzhou	#6
CDT Only	Chunghwa	China	Fuzhou	#7
CDT Only	Chunghwa	China	Fuzhou	#8
CDT Only	Chunghwa	Taiwan	Taoyuan	#1
CDT Only	Chunghwa	Taiwan	Taoyuan	#2
CDT Only	Chunghwa	Taiwan	Taoyuan	#3
CDT Only	Chunghwa	Taiwan	Taoyuan	#4
CDT Only	Chunghwa	Taiwan	Yangmei	#1
CDT Only	Chunghwa	Taiwan	Yangmei	#2
CDT Only	Chunghwa	Taiwan	Yangmei	#3
CDT Only	Chunghwa	Taiwan	Yangmei	#4
CDT Only	Hitachi	Malaysia	Malaysia	#6
CDT Only	Hitachi	Japan	Mobara	#1
CDT Only	Hitachi	Japan	Mobara	#2
CDT Only	Hitachi	Japan	Mobara	#3
CDT Only	Hitachi	Japan	Sakura	#2
CDT Only	Hitachi	Japan	Sakura	#3
CDT Only	Hitachi	Japan	Sakura	#4
CDT Only	Hitachi	Japan	Sakura	#5
CDT Only	Hitachi	Singapore	Singapore	#1
CDT Only	Hitachi	Singapore	Singapore	#2
CDT Only	Hitachi	Singapore	Singapore	#3
CDT Only	Hitachi	Singapore	Singapore	#4
CDT Only	Hitachi	Singapore	Singapore	#5
CDT Only	LPD	China	Changsa	#4
CDT Only	LPD	Korea	Changwon	H-3
CDT Only	LPD	Taiwan	Chupei	#1
CDT Only	LPD	Taiwan	Chupei	#2
CDT Only	LPD	Taiwan	Chupei	#3
CDT Only	LPD	Taiwan	Chupei	#4
CDT Only	LPD	Taiwan	Chupei	#5
CDT Only	LPD	Taiwan	Dapon	#1
CDT Only	LPD	Taiwan	Dapon	#2
CDT Only	LPD	Taiwan	Dapon	#3
CDT Only	LPD	Taiwan	Dapon	#4
CDT Only	LPD	Taiwan	Dapon	#5
CDT Only	LPD	Korea	Kumi	F-2
CDT Only	LPD	Korea	Kumi	G-1
CDT Only	LPD	Korea	Kumi	G-2
CDT Only	LPD	Korea	Kumi	T
CDT Only	LPD	Austria	Lebring	#1
CDT Only	LPD	Austria	Lebring	#2

Type	Maker	Country	Site	Line
CDT Only	LPD	Austria	Lebring	#3
CDT Only	LPD	Austria	Lebring	#4
CDT Only	LPD	China	Nanjing	DL3
CDT Only	LPD	China	Nanjing	DL4
CDT Only	LPD	China	Nanjing	DL5
CDT Only	LPD	China	Nanjing	DL6
CDT Only	LPD	China	Nanjing	DL7
CDT Only	LPD	United Kingdom	Wales	#1
CDT Only	Mitsubishi	Japan	Kyoto	#5
CDT Only	Mitsubishi	Japan	Kyoto	#6
CDT Only	Mitsubishi	Japan	Kyoto	#7
CDT Only	Mitsubishi	Mexico	Mexicali	#1
CDT Only	MTPD	Thailand	Bang Kadi	#4
CDT Only	MTPD	Japan	Fukaya	#1
CDT Only	MTPD	Japan	Fukaya	#2
CDT Only	MTPD	Japan	Himeji	#1
CDT Only	MTPD	Japan	Kiyohara	#2
CDT Only	MTPD	Malaysia	Selangor	#4
CDT Only	MTPD	Japan	Takatsuki	#1
CDT Only	MTPD	Japan	Utsunomiya	#3
CDT Only	Nec	Japan	Otsu	#1
CDT Only	Nec	Japan	Otsu	#2
CDT Only	Orion	Korea	Kumi	#4(ORICO-9)
CDT Only	Orion	Korea	Kumi	#5(ORICO-10)
CDT Only	Orion	Korea	Kumi	BSA
CDT Only	Orion	Mexico	Mexicali	#2
CDT Only	SDI	Korea	Busan	#3
CDT Only	SDI	Korea	Busan	#6
CDT Only	SDI	China	Shenzhen	#2
CDT Only	SDI	Korea	Suwon	#2
CDT Only	SDI	Korea	Suwon	#3
CDT Only	SDI	Korea	Suwon	#4
CDT Only	SDI	Korea	Suwon	#5
CDT Only	SDI	China	Tianjin	#2
CDT Only	Sony	Japan	Inazawa	#1
CDT Only	Sony	Japan	Inazawa	#2
CDT Only	Sony	Japan	Inazawa	#3
CDT Only	Sony	Japan	Inazawa	#4
CDT Only	Sony	Japan	Inazawa	#6
CDT Only	Sony	Japan	Mizunami	#1
CDT Only	Sony	Japan	Mizunami	#4
CDT Only	Sony	United States	San Diego	#4
CDT Only	Sony	Singapore	Tuas	#4
CDT Only	TECO	Taiwan	Kguanin	#1
Switched	Chunghwa	China	Fuzhou	#3
Switched	Chunghwa	China	Fuzhou	#4
Switched	Chunghwa	United Kingdom	Mossend	#2
Switched	Chunghwa	Malaysia	Selangor	#2

Type	Maker	Country	Site	Line
Switched	Chunghwa	Malaysia	Selangor	#5
Switched	Chunghwa	Malaysia	Selangor	#6
Switched	Chunghwa	Malaysia	Selangor	#7
Switched	Chunghwa	Malaysia	Selangor	#8
Switched	Irico	China	Xianyang	#2
Switched	Irico	China	Xianyang	#6
Switched	LPD	China	Changsa	#5
Switched	LPD	Korea	Kumi	F-1
Switched	LPD	China	Nanjing	DL1
Switched	LPD	China	Nanjing	DL2
Switched	LPD	United States	Rauland	#2
Switched	LPD	United States	Rauland	#3
Switched	LPD	Brazil	Sao Jose Dos Campos	#5
Switched	Mitsubishi	Japan	Kyoto	#4
Switched	MTPD	Thailand	Bang Kadi	#1
Switched	MTPD	Thailand	Bang Kadi	#3
Switched	MTPD	China	Beijing	#1
Switched	MTPD	China	Beijing	#6
Switched	MTPD	Malaysia	Selangor	#2
Switched	Orion	Korea	Kumi	#3(ORICO-7)
Switched	Samtel	India	Ghaziabad	#3
Switched	SDI	Korea	Busan	#2
Switched	SDI	Korea	Busan	#4
Switched	SDI	Korea	Busan	#5
Switched	SDI	Malaysia	Sembilan	#6
Switched	SDI	China	Shenzhen	#4
Switched	Sony	China	Shanghai	#2
Switched	Sony	Singapore	Tuas	#1
Switched	Thai-CRT	Thailand	Rayong	#5
Hybrid	MTPD	China	Beijing	#2
Hybrid	MTPD	United States	Horseheads	#2
Hybrid	MTPD	Japan	Utsunomiya	#2
Hybrid	SDI	Korea	Busan	#1
Hybrid	SDI	Brazil	Manaus	#1
Hybrid	SDI	Brazil	Manaus	#2
Hybrid	Sony	Japan	Mizunami	#3
Hybrid-Switch	LPD	Korea	Changwon	H-2
Hybrid-Switch	LPD	Korea	Changwon	H-5
Hybrid-Switch	LPD	United Kingdom	Wales	#2
Hybrid-Switch	SDI	Malaysia	Sembilan	#4
Hybrid-Switch	SDI	Malaysia	Sembilan	#5
Hybrid-Switch	SDI	China	Shenzhen	#3
Hybrid-Switch	SDI	Korea	Suwon	#1

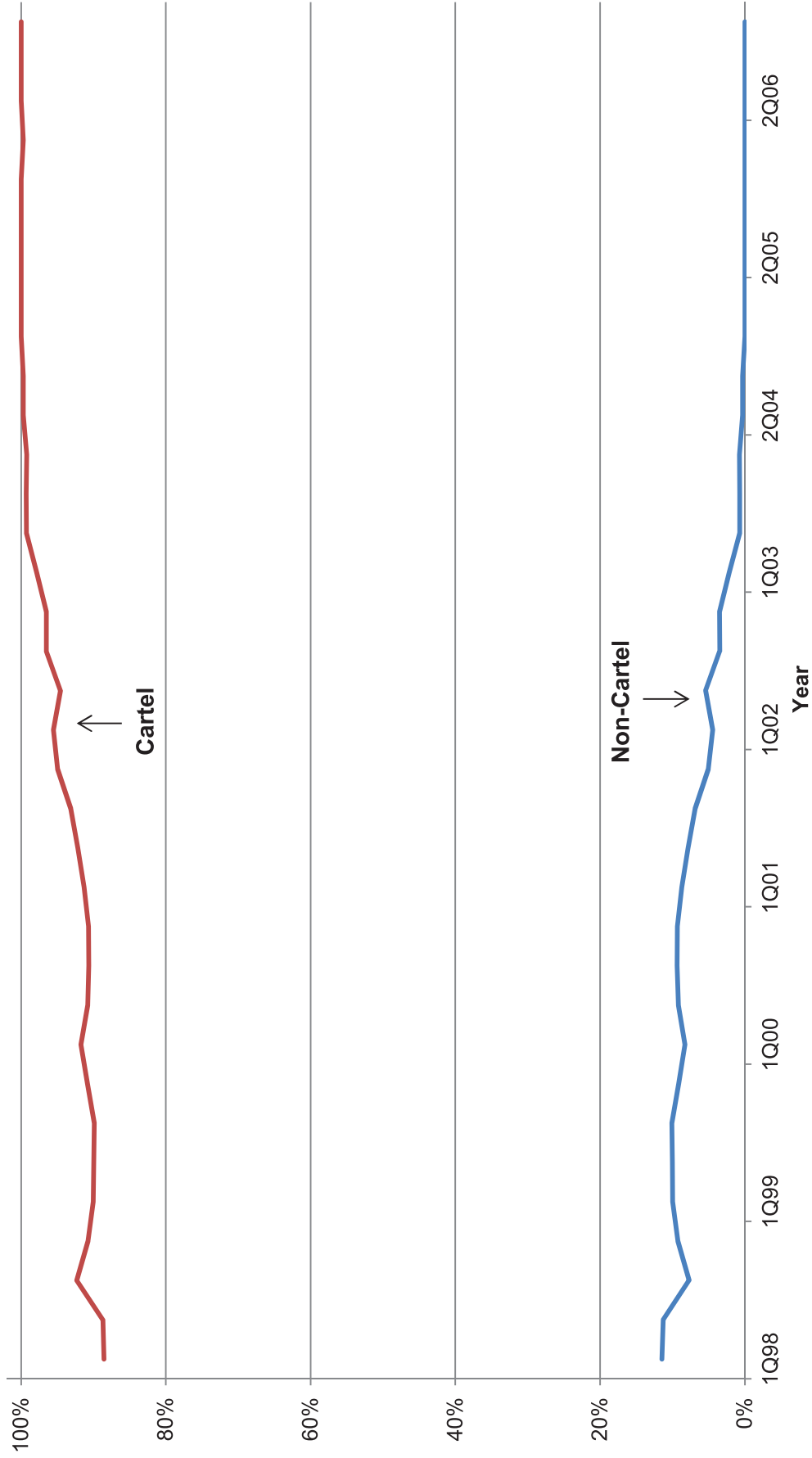
Note(s):

Lines that exhibited positive CPT and CDT capacity simultaneously on at least two distinct dates in each of at least two distinct years are considered to have sufficient observations to be considered a “hybrid” line. E.g., a line with positive CPT and CDT capacity on two different dates within 2003 and two different dates in 2004 would be considered a hybrid line, whereas a line with only one hybrid observation in each year would not. “Hybrid-switch” lines are lines that satisfy our criteria for a “hybrid” line, but also contain observations in which they produce both CPTs exclusively and CDTs exclusively. Samsung’s Suwon #1 line is among the 14 lines I classify as “hybrid” or “hybrid-switch”.

Source File(s):

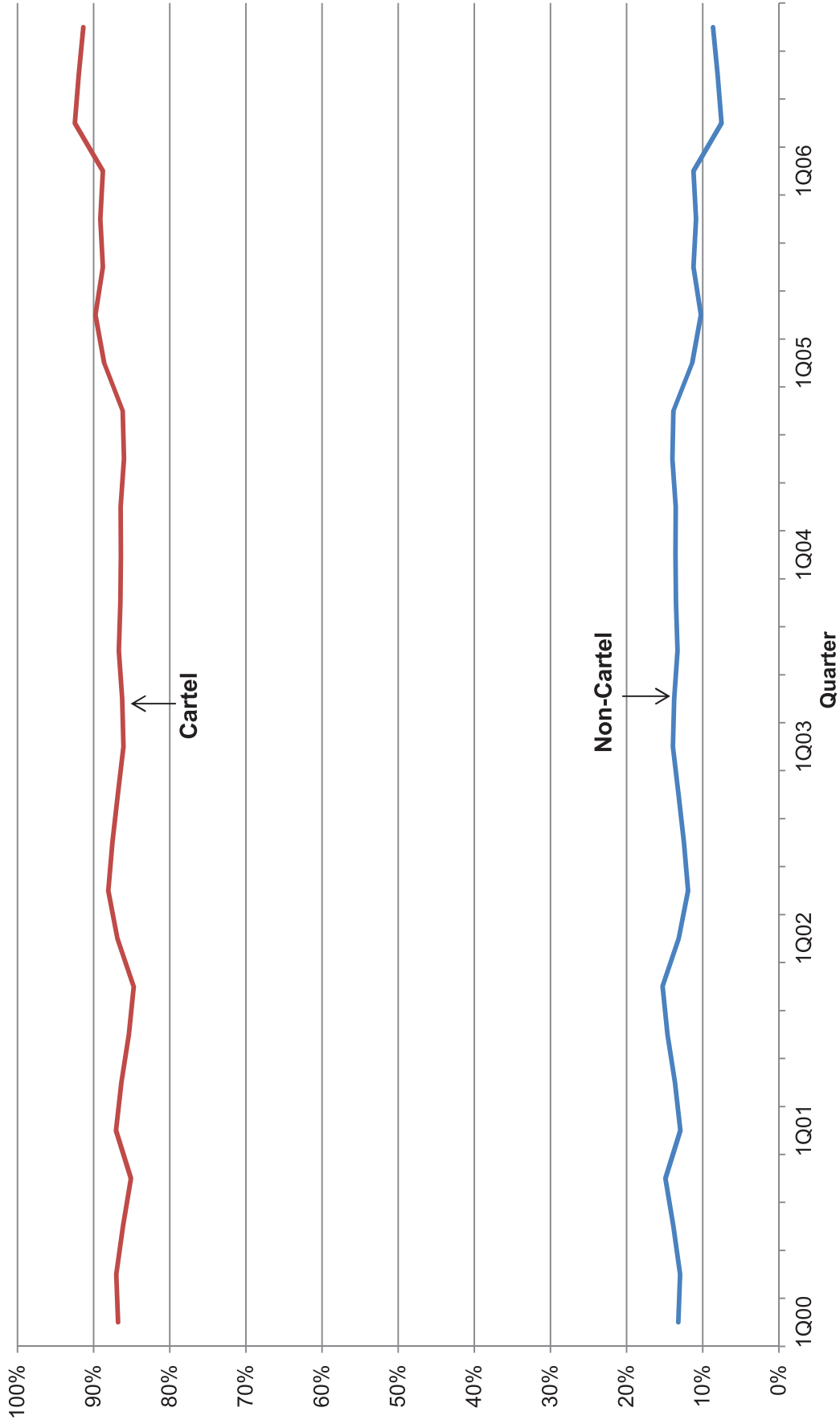
line_list_by_type.do
line_type.do
Capacity Worksheets.xlsx
capacity_database.do
database edits.do
early_capacity_load.do
capacity_load.do
line_list_by_type.xlsx

Worldwide CDT Production Shares



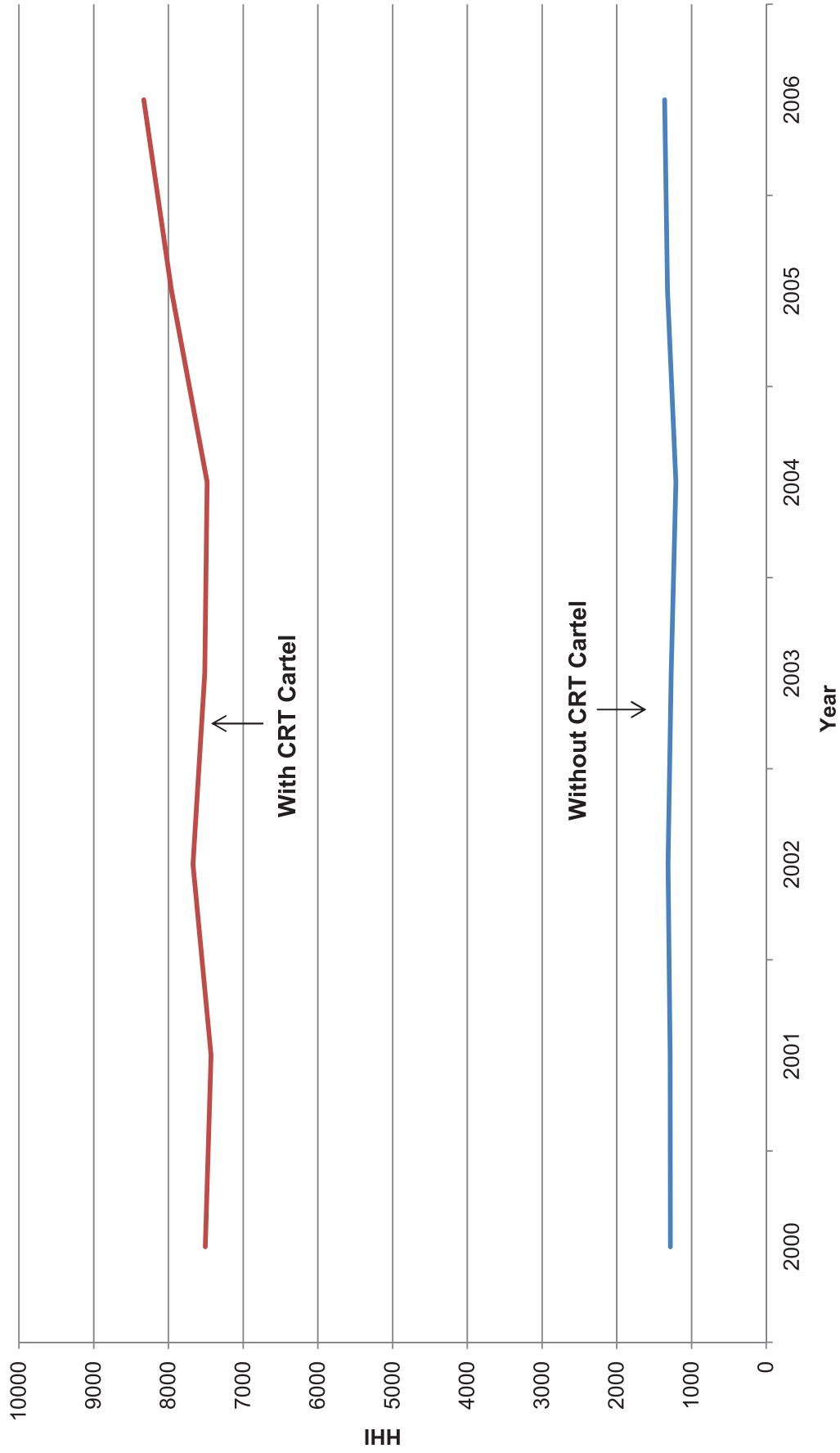
Note(s): 4Q03 CDT data are comprised of DisplaySearch projected quantities. There are no CDT market share data for 1Q04, "Others" CDT manufacturer assumed to be Orion in 3Q05 - 4Q06 based on CDT capacity information.
 Data Source(s): See Exhibits 2 and 82.
 Source File(s): CDT share.do, dta creator.do; Clean Shares.xlsx

Worldwide CPT Production Shares



Note(s): 4Q06 CPT information appears to be projected as of 1/1/2006.
Data Source(s): See Exhibit 82.
Source File(s): CPT share.do; dta creator.do; Clean Shares.xlsx

HHI Over Time, Cartelized CPT Production vs. Non-Cartelized CPT Production

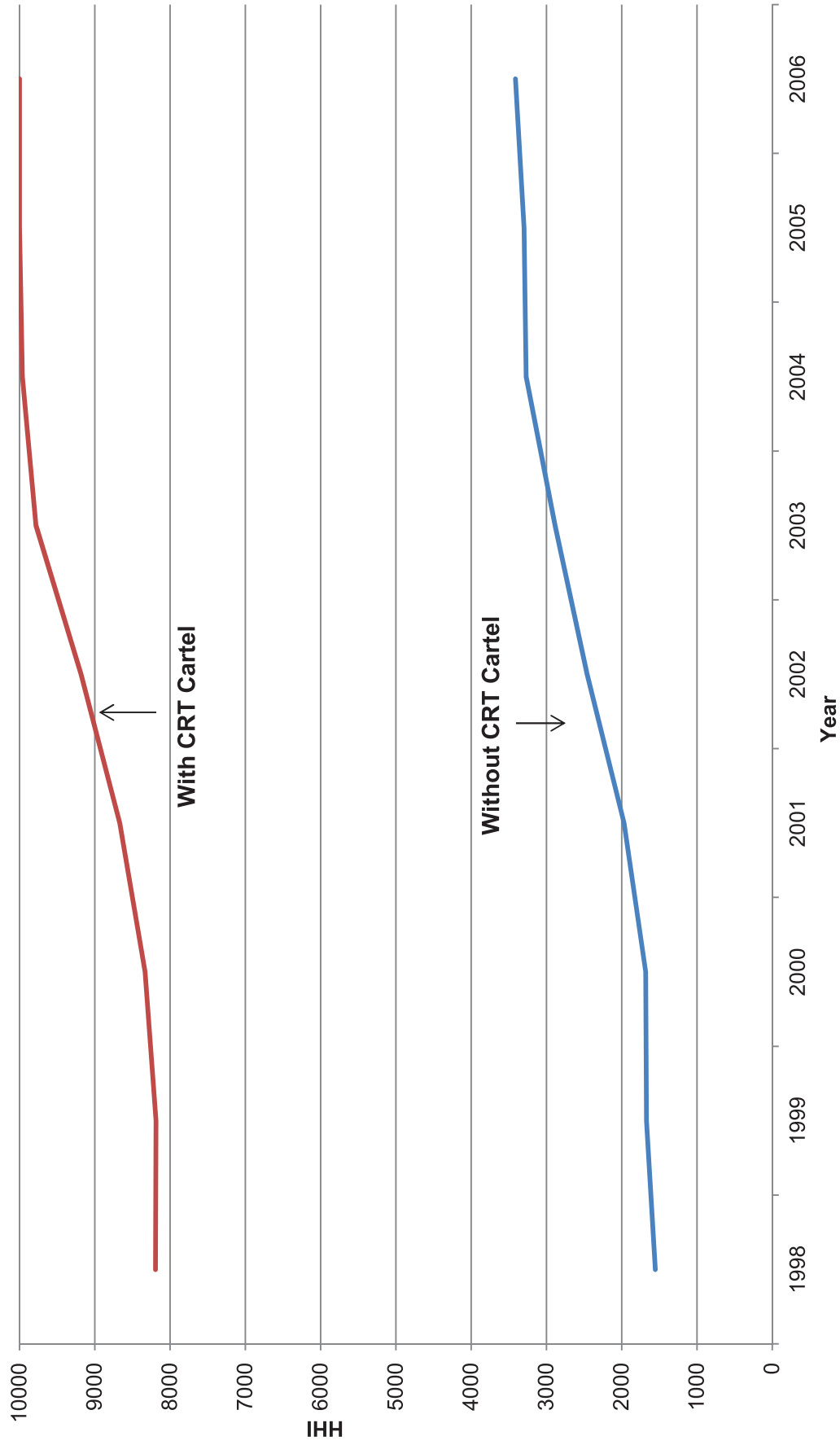


Note(s): 4Q06 CPT information appears to be projected as of 11/2006.

Data Source(s): See Exhibit 82.

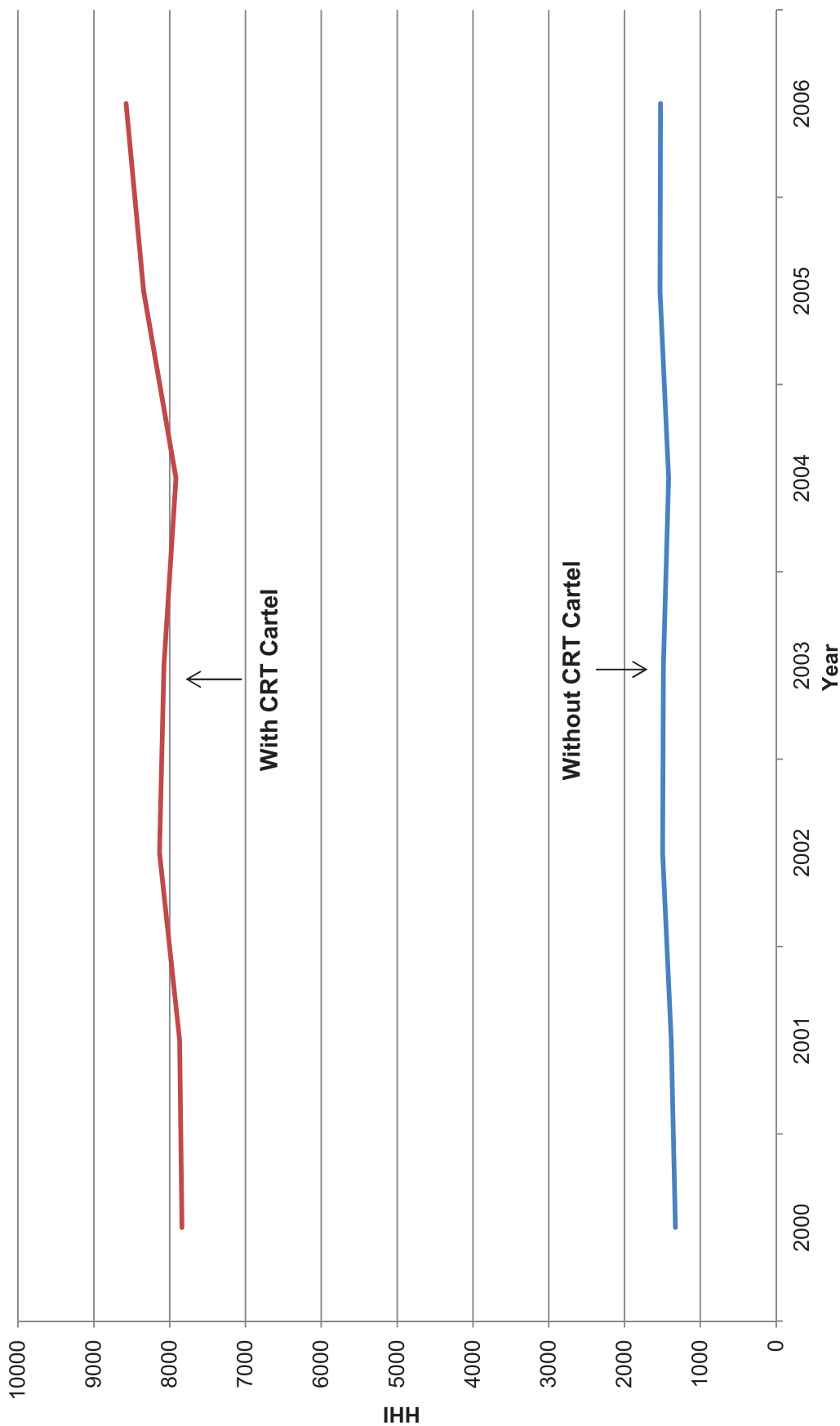
Source File(s): HHI.do; dta creator.do; HHI.xlsx

HHI Over Time, Cartelized CDT Production vs. Non-Cartelized CDT Production



Note(s): 4Q03 CDT data are comprised of DisplaySearch projected quantities. There are no CDT market share data for 1Q04. "Others" CDT manufacturer assumed to be Orion in 3Q05 - 4Q06 based on CDT capacity information.
 Data Source(s): See Exhibits 2 and 82.
 Source File(s): HHI.do; dta creator.do; CDT Data.xlsx; HHI.xlsx

HHI Over Time, Cartelized CRT Production vs. Non-Cartelized CRT Production

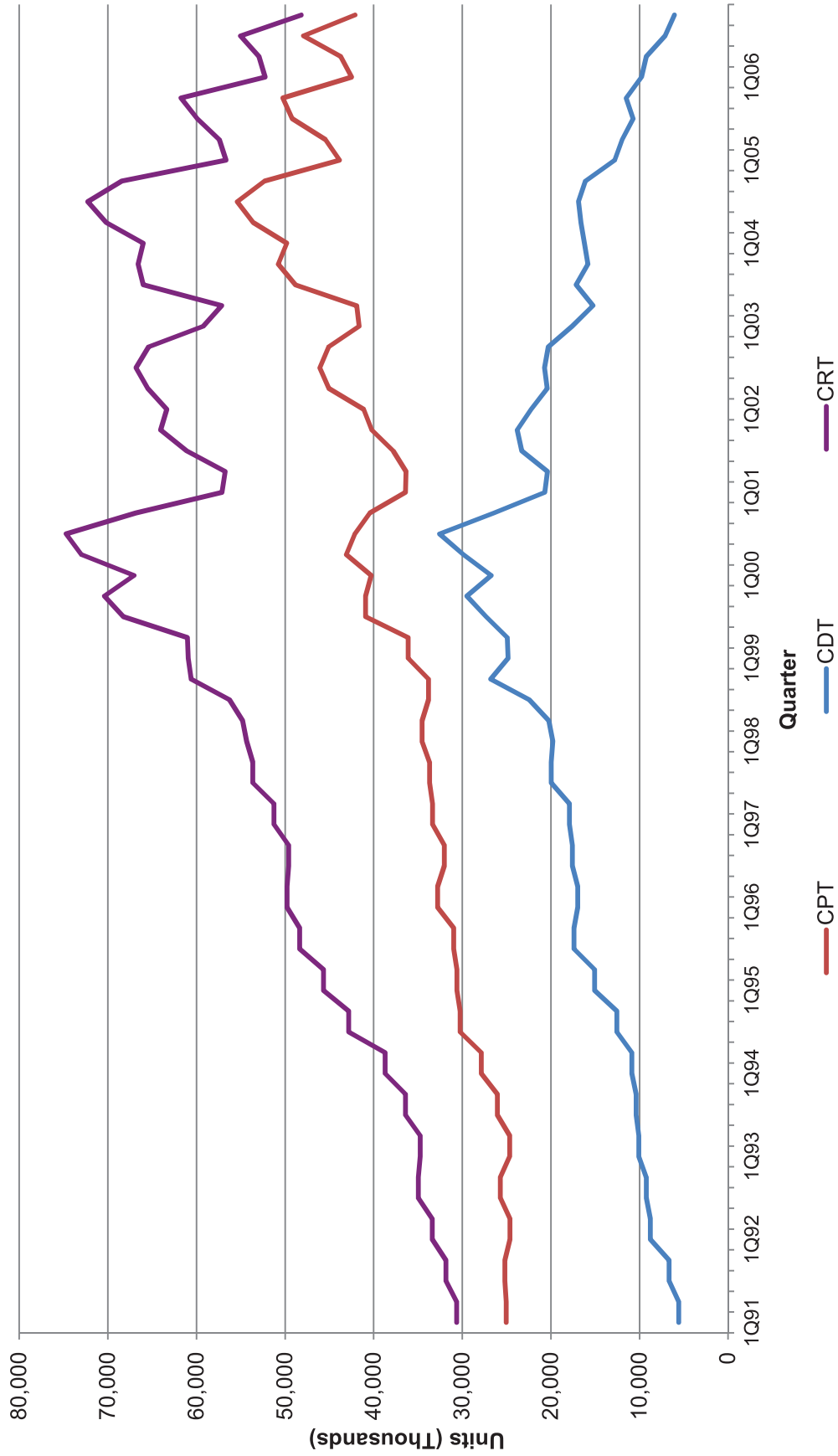


Note(s): 4Q03 CDT data are comprised of DisplaySearch projected quantities. There are no CDT market share data for 1Q04. "Others" CDT manufacturer assumed to be Orion in 3Q05 - 4Q06 based on CDT capacity information. 4Q06 CPT information appears to be projected as of 11/2006.

Data Source(s): See Exhibits 2 and 82.

Source File(s): HHI.do; dta creator.do; CDT Data.xlsx; HHI.xlsx

Total Worldwide CRT Production by Tube Type

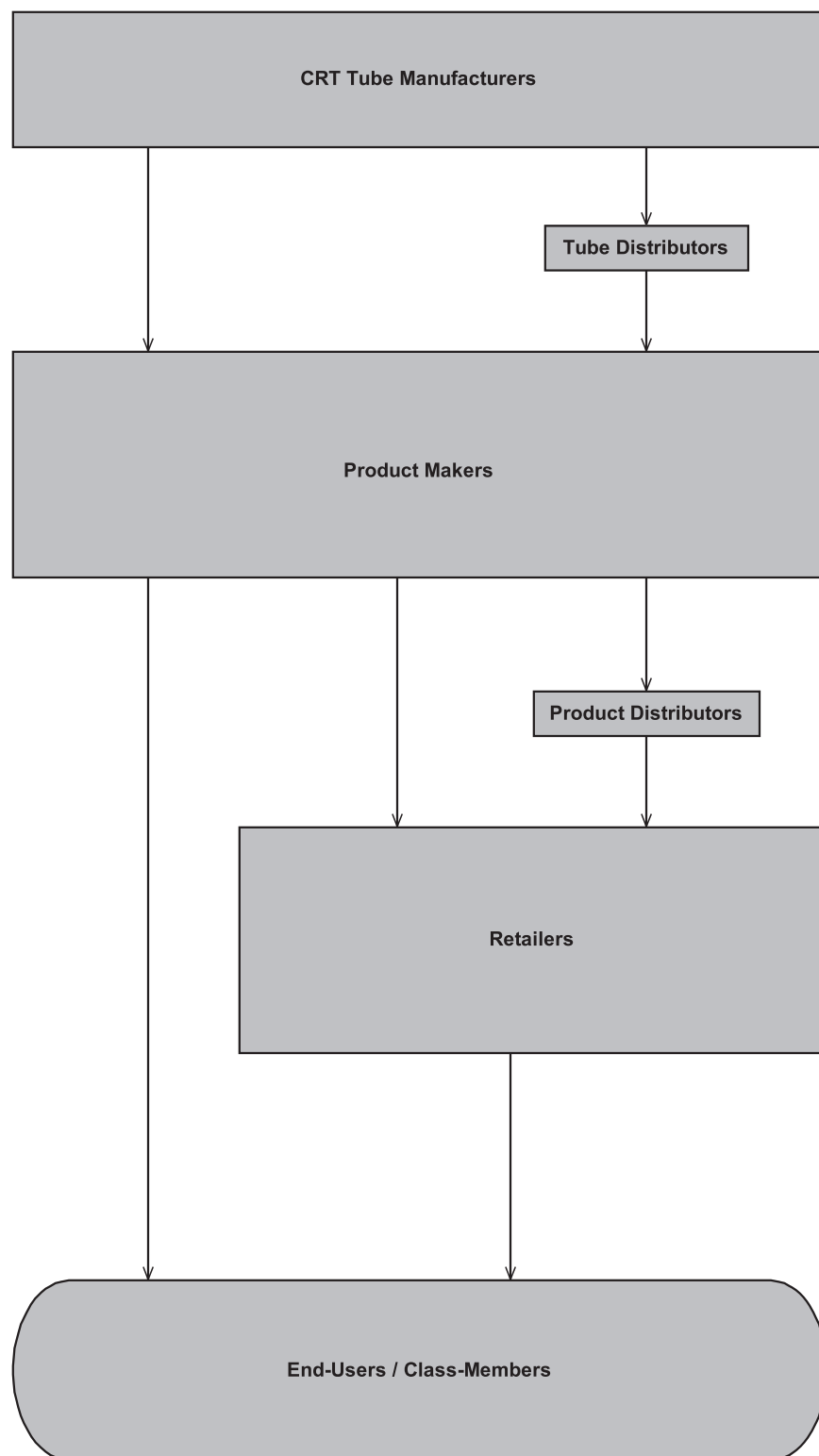


Note(s): There are no data for 1Q04 CDT; quantity value generated by taking midpoint between 4Q03 CDT and 2Q04 CDT. 4Q03 CDT data are comprised of DisplaySearch projected quantities. Data for years 1991-1997 in CDT and 1991-1999 in CPT are reported every half-year; the same values are assigned to corresponding quarters. 4Q06 CPT information appears to be projected as of 11/2006.

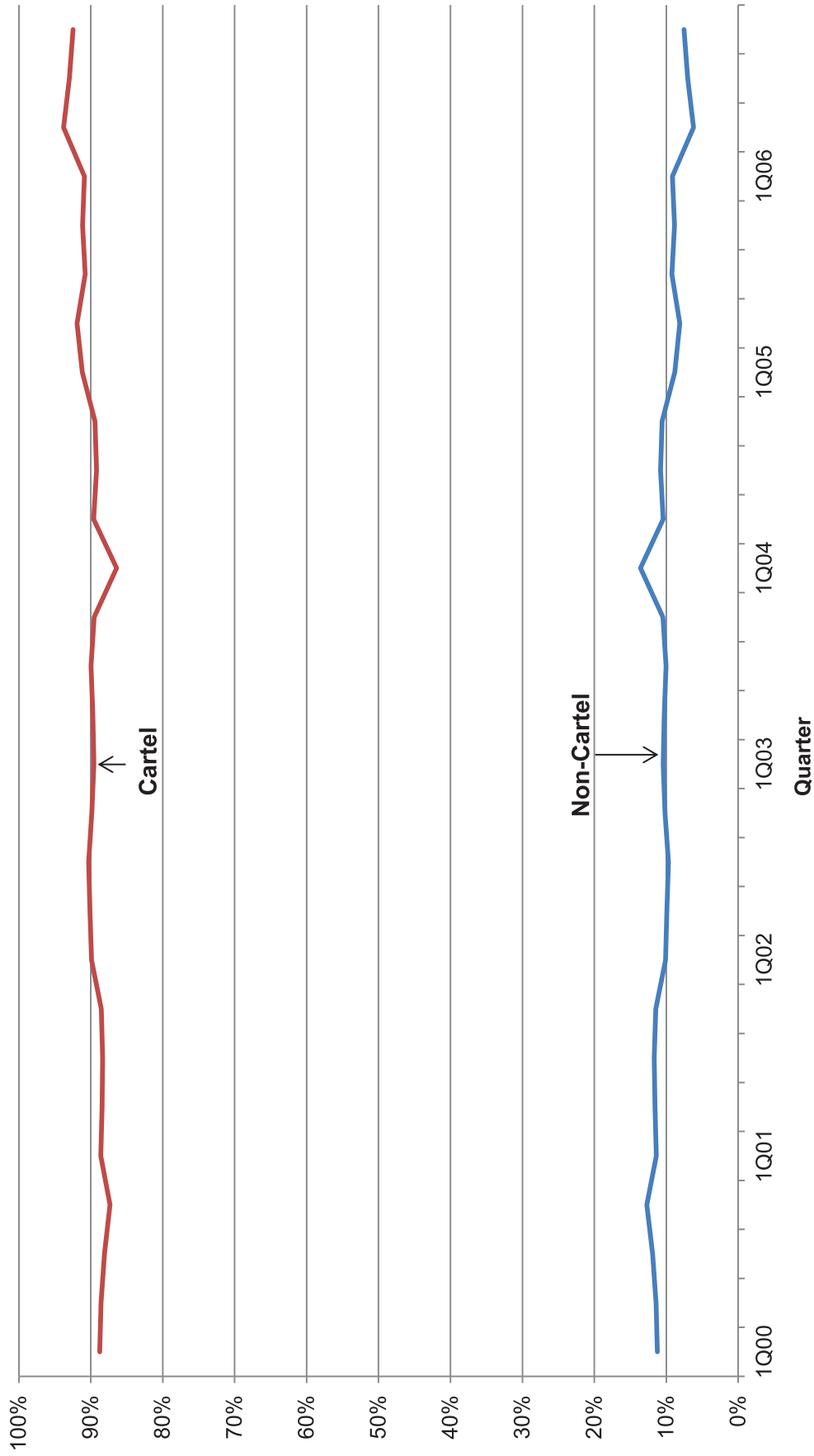
Data Source(s): See Exhibit 82.

Source File(s): total production.do; dta creator.do; total production.xlsx

CRT Distribution Diagram



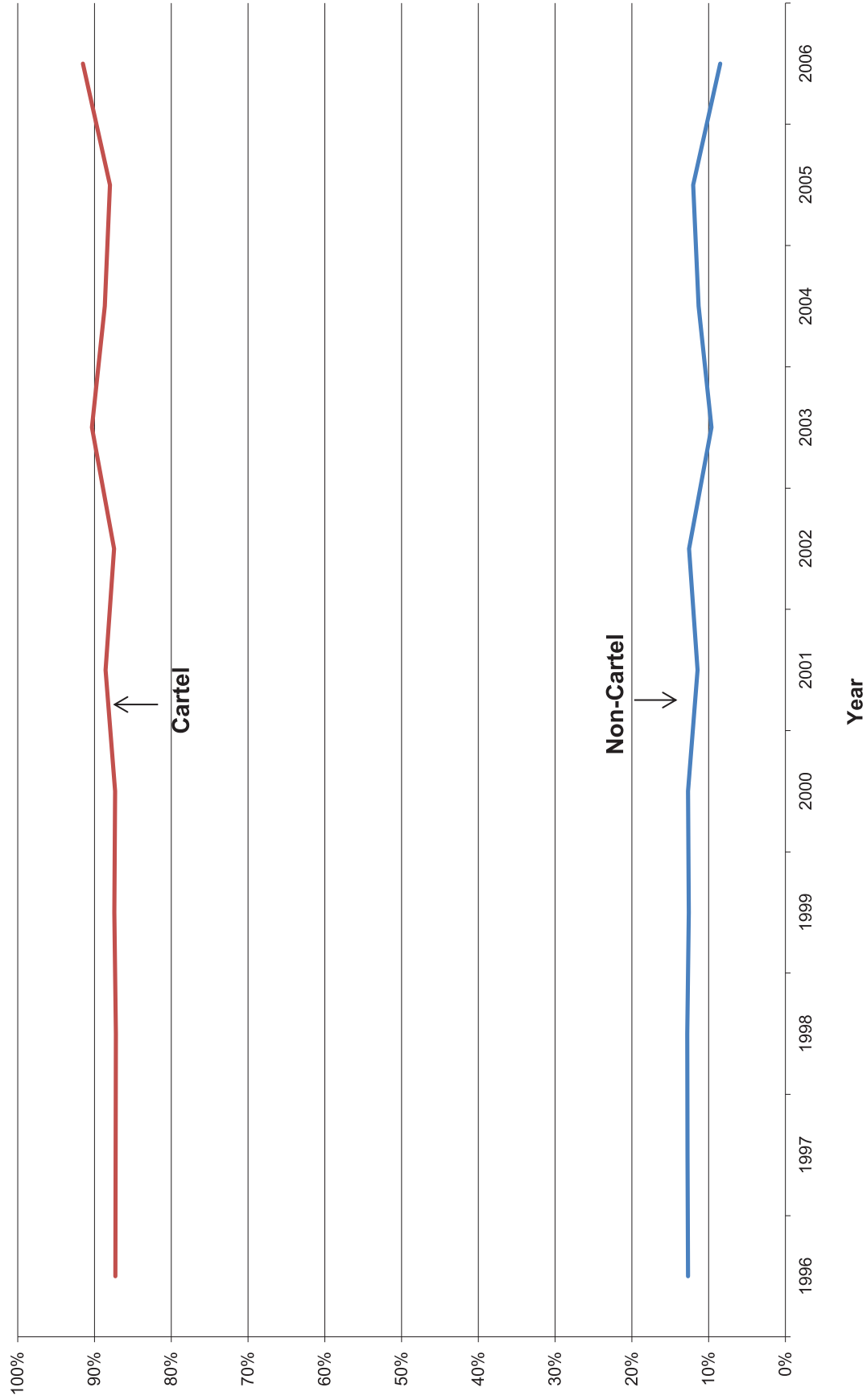
Worldwide CRT Production Shares



Note(s): 4Q03 CDT data are comprised of DisplaySearch projected quantities. There are no CDT market share data for 1Q04. "Others" CDT manufacturer assumed to be Orion in 3Q05 - 4Q06 based on CDT capacity information. 4Q06 CPT information appears to be projected as of 11/2006.

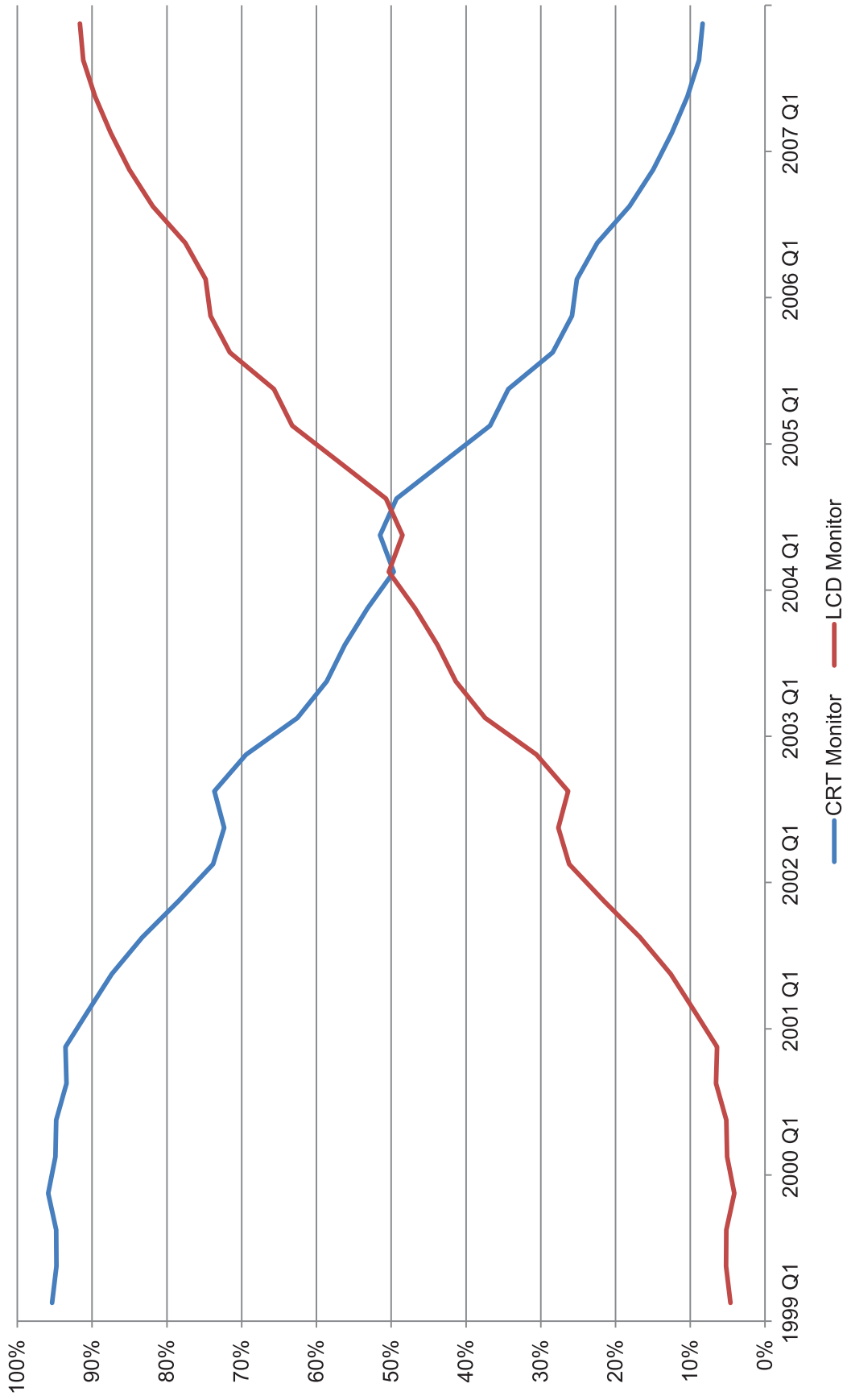
Data Source(s): See Exhibits 2 and 82.

Shares of Worldwide CRT Capacity



Data Source(s): See Exhibit 2.
 Source File(s): Capacity Worksheets.xlsx; capacity shares.do; early_capacity_load.do; capacity_load.do; capacity_database.do;

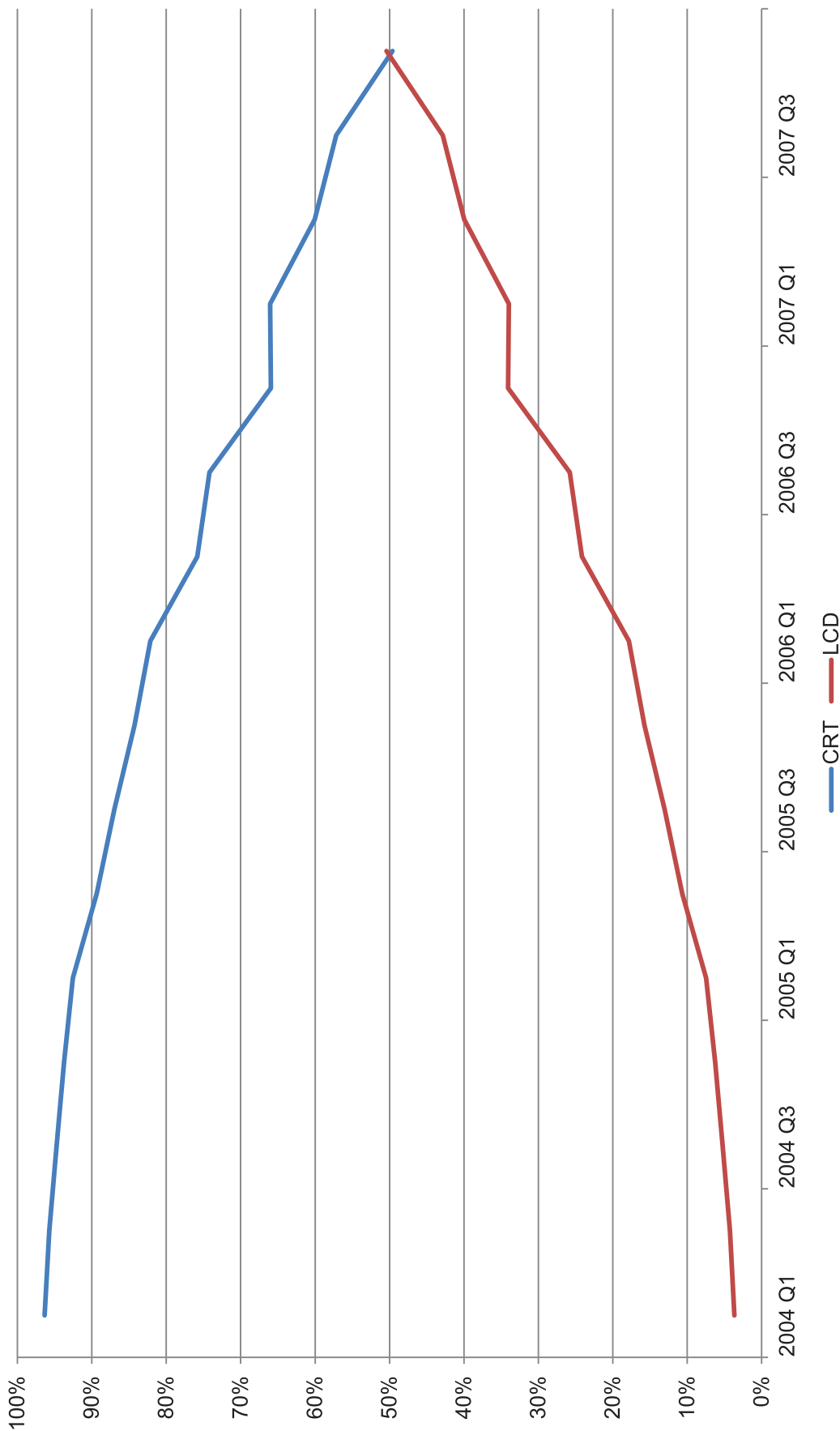
Worldwide Monitor Share by Technology



Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.

Source File(s): aE_DISP_LCD-000129.xlsx

Worldwide TV Share by Technology



Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
 Source File(s): aE_DISP_LCD-000129.xlsx

CDT Prices and Compound Annual Growth Rates

Year	Price		
	15" CDT	17" CDT	19" CDT
1995	\$148.97	\$255.27	
1996	\$132.93	\$235.59	
1997	\$85.49	\$172.16	\$283.95
1998	\$57.09	\$102.69	\$200.79
1999	\$62.00	\$93.52	\$165.49
2000	\$61.28	\$85.01	\$130.83
2001	\$45.78	\$66.73	\$90.33
2002	\$38.52	\$53.73	\$79.53
2003	\$34.61	\$46.05	\$72.27
2004	\$34.90	\$45.31	\$69.49
2005	\$32.73	\$40.51	\$62.14
2006	\$29.19	\$35.62	\$54.66
2007	\$26.17	\$31.81	\$51.94
CAGR 1995-2001*	-17.9%	-20.0%	-24.9%
CAGR 2001-2007	-8.9%	-11.6%	-8.8%

Notes: * First listed CAGR for 19" CDTs is for period 1997-2001 because 19" CDT price data for 1995 and 1996 are unavailable.

Source File(s): average_price.do; average_price_all.xlsx

Data Source(s): Defendant data; see Exhibit 64.

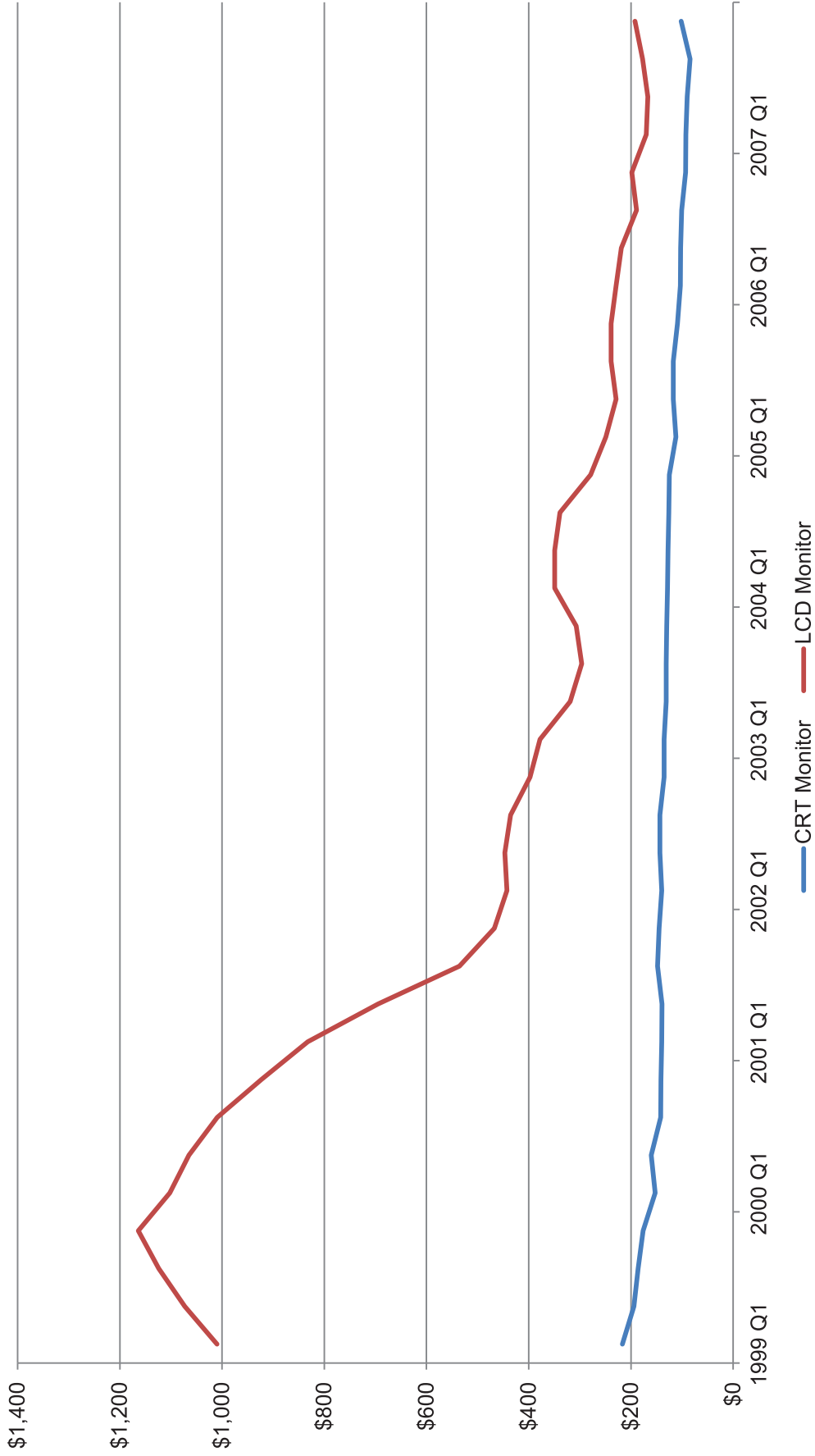
CPT Prices and Compound Annual Growth Rates

Year	Price			
	14" CPT	20" CPT	21" CPT	29" CPT
1995	\$48.08	\$68.60	\$78.80	\$161.61
1996	\$47.72	\$67.09	\$76.85	\$165.26
1997	\$41.55	\$61.66	\$66.26	\$159.06
1998	\$33.33	\$58.85	\$59.59	\$136.47
1999	\$29.90	\$51.71	\$56.25	\$142.86
2000	\$32.33	\$50.89	\$55.93	\$147.66
2001	\$28.72	\$49.27	\$53.39	\$127.06
2002	\$23.29	\$41.67	\$47.82	\$108.05
2003	\$21.86	\$37.55	\$45.80	\$103.68
2004	\$21.36	\$37.88	\$43.93	\$97.32
2005	\$19.73	\$37.52	\$38.83	\$82.22
2006	\$17.29	\$33.68	\$33.61	\$74.29
2007	\$16.48	\$31.77	\$31.86	\$71.37
CAGR 1995-2004	-8.6%	-6.4%	-6.3%	-5.5%
CAGR 2004-2007	-8.3%	-5.7%	-10.2%	-9.8%

Data Source(s): Defendant data; see Exhibit 64.

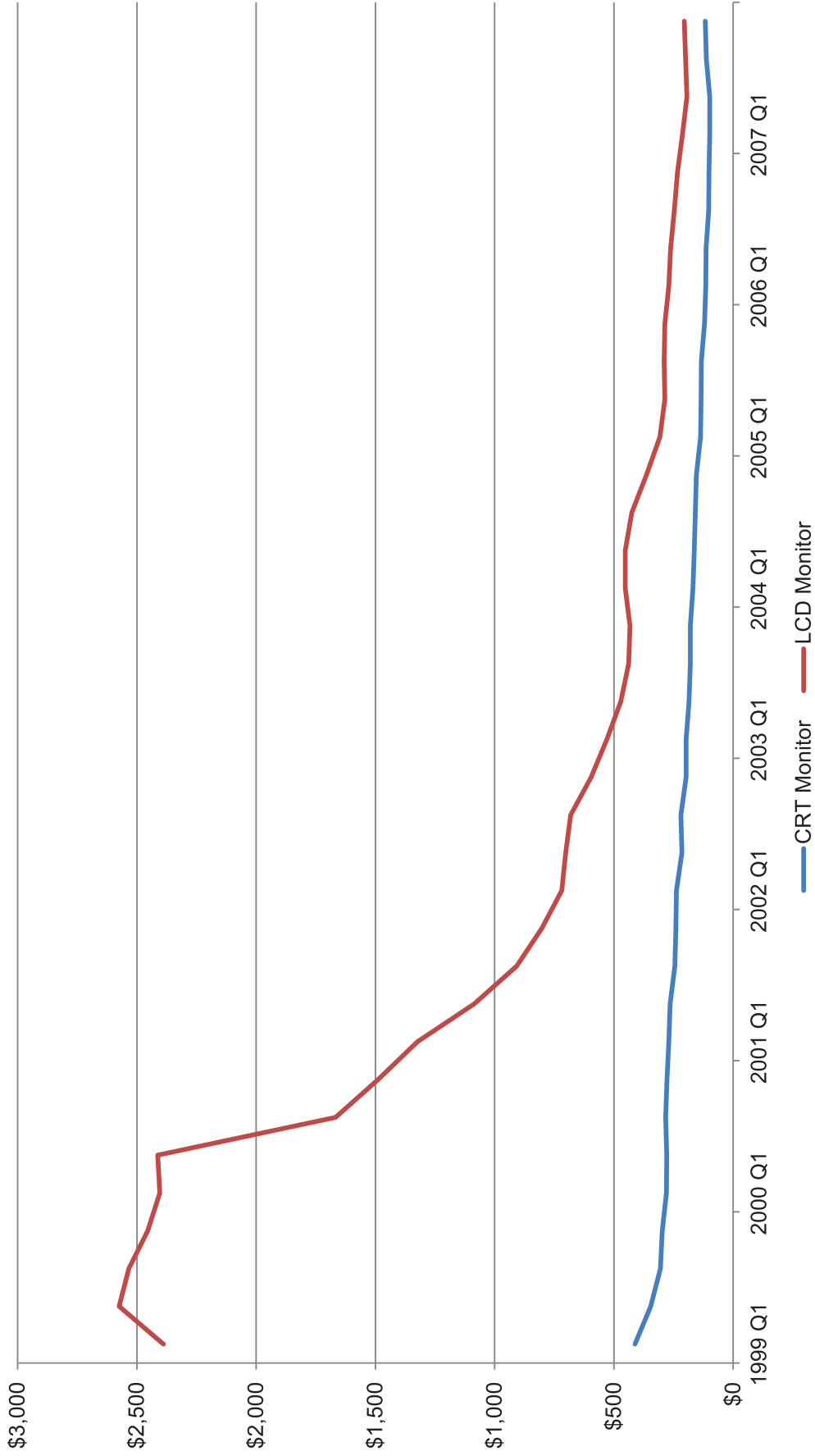
Source File(s): average_price.do; average_price_all.xlsx

15" Monitor Price by Technology



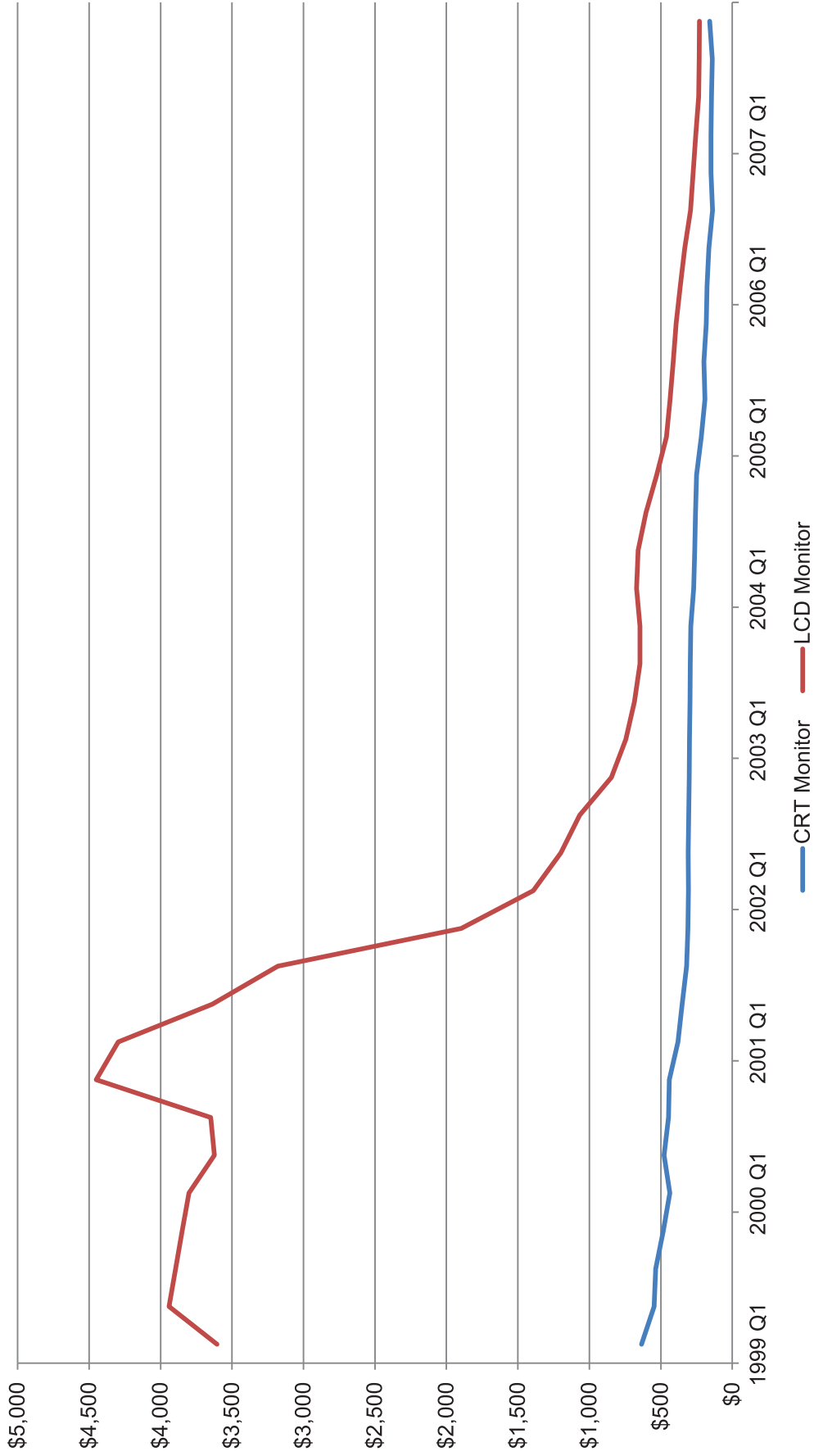
Note(s): Prices are global averages.
 Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
 Source File(s): aE_DISP_LCD-000129.xlsx

17" Monitor Price by Technology



Note(s): Prices are global averages.
 Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
 Source File(s): aE_DISP_LCD-000129.xlsx

19" Monitor Price by Technology

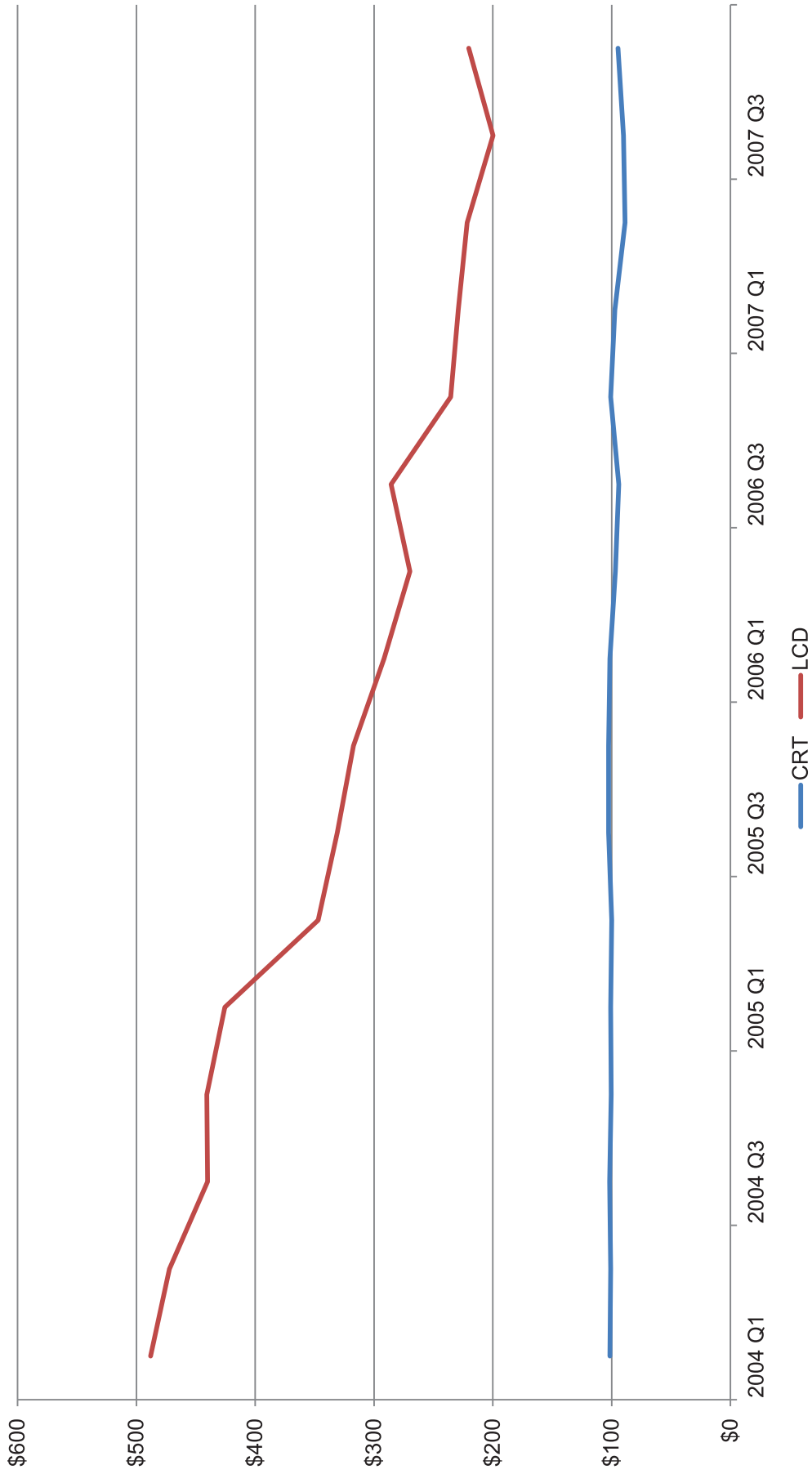


Note(s): 19" LCD price data are missing for Q3 and Q4 1999. I estimate these data linearly using Q2 1999 and Q1 2000 prices as end points. Prices are global averages.

Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.

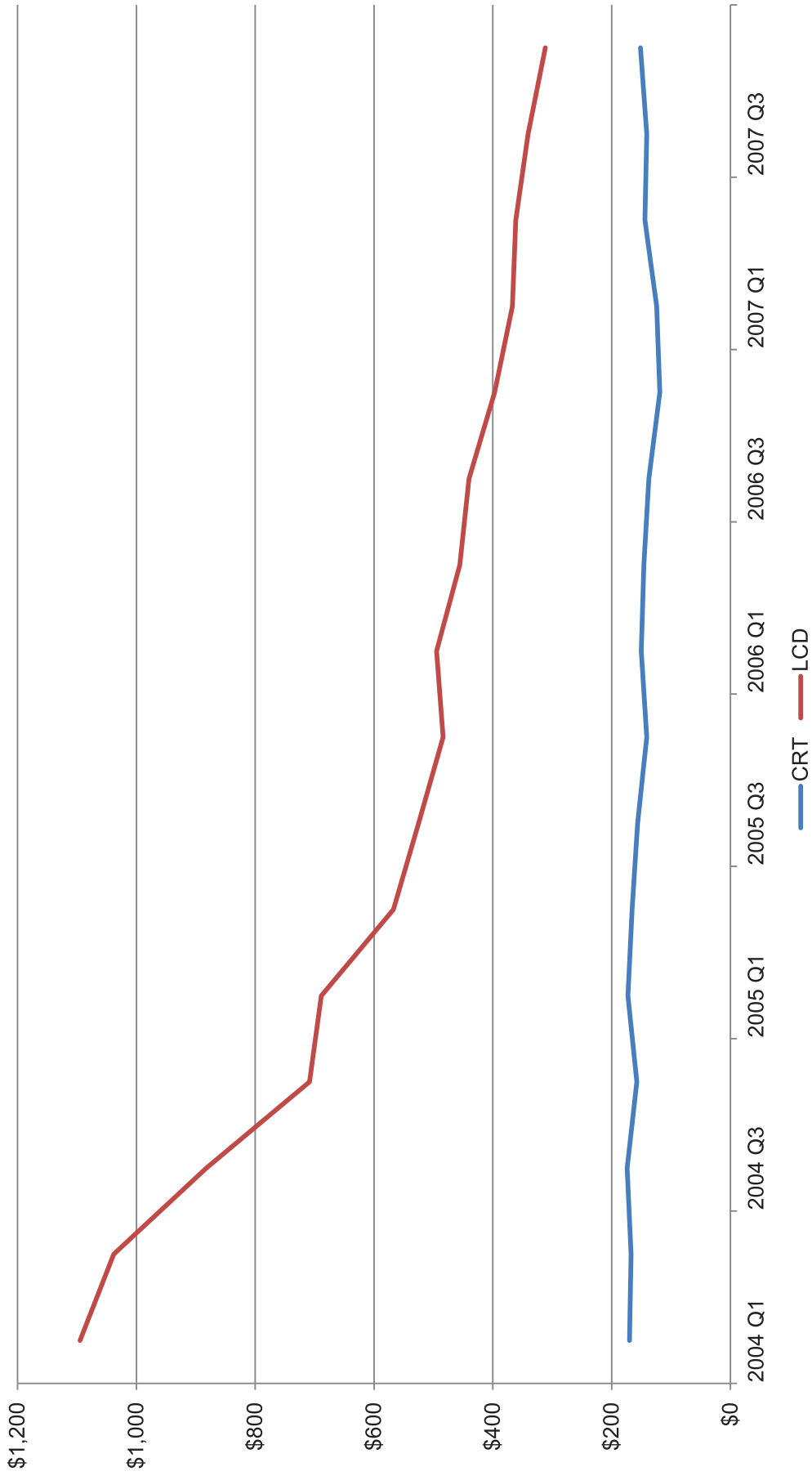
Source File(s): aE_DISP_LCD-000129.xlsx

10" - 14" TV Price by Technology



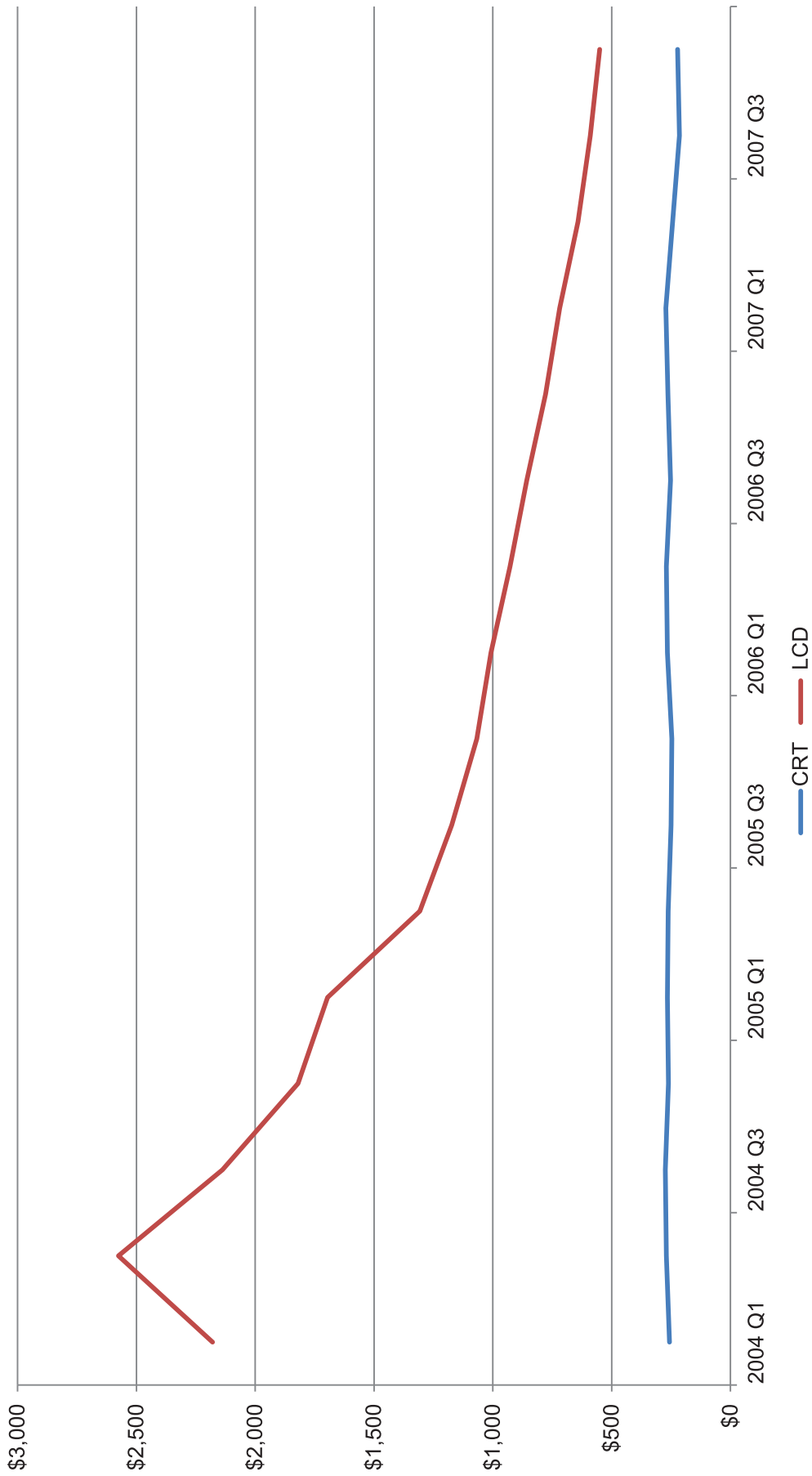
Note(s): Prices are global averages. TV price data are reported by size category.
 Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
 Source File(s): aE_DISP_LCD-000129.xlsx

20" - 21" TV Price by Technology



Note(s): Prices are global averages. TV price data are reported by size category.
 Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
 Source File(s): aE_DISP_LCD-000129.xlsx

25" - 29" TV Price by Technology



Note(s): Prices are global averages. TV price data are reported by size category.
 Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
 Source File(s): aE_DISP_LCD-000129.xlsx

Worldwide Quantity of LCD Monitors Sold

Year	Monitor Size			
	15"	17"	19"	20" - 21"
1999	3,156,997	58,500	97	29,095
2000	4,643,969	244,858	5,043	40,098
2001	12,214,705	1,866,912	19,469	103,701
2002	22,180,311	6,875,917	467,007	338,373
2003	24,515,928	18,549,278	2,343,642	826,353
2004	22,486,475	35,663,864	7,822,250	1,713,654
2005	17,098,234	62,202,952	23,081,926	3,066,182
2006	14,251,796	66,796,834	41,775,168	6,446,964
2007	11,317,648	58,745,873	64,874,135	11,674,679
Grand Total	131,866,063	251,004,988	140,388,737	24,239,099

Note(s): Larger sizes omitted. Listed sizes make up roughly 95% of total monitor sales from 1999-2007.

Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.

Source File(s): aE_DISP_LCD-000129.xlsx

Worldwide Quantity of LCD TVs Sold

Year	TV Size							
	10" - 14"	15" - 19"	20" - 21"	22" - 24"	25" - 29"	30" - 34"	35" - 39"	40" - 44"
2002	304,075	646,325	296,835	64,450	3,775	31,050	3,000	1,680
2003	522,748	1,608,129	907,009	303,860	126,255	382,742	67,117	10,776
2004	888,093	2,315,915	2,126,550	681,791	1,106,449	1,451,294	153,636	24,289
2005	802,509	3,844,833	4,056,839	1,108,180	3,753,094	5,821,965	1,063,494	591,421
2006	321,006	4,710,428	7,409,202	1,372,746	6,721,851	15,327,263	4,040,632	4,885,046
2007	177,006	8,042,658	6,845,568	1,707,520	9,221,414	27,294,461	8,174,037	12,910,594
Grand Total	3,015,437	21,168,288	21,642,003	5,238,547	20,932,838	50,308,775	13,501,916	18,423,806

Notes: Larger sizes omitted. Listed sizes make up over 96% of total LCD TV sales from 2002-2007.

Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.

Source File(s): aE_DISP_LCD-000129.xlsx

Gain in CPT Sales Necessary for 5% Price Decline to be Profitable

Year	Defendant CPT Production	Additional Sales Needed for 5% Price Decline to be Profitable	Total LCD TV Sales	Critical Gain/Total LCD TV Sales
1995	87,753,158	12,536,165		
1996	110,199,974	15,742,853		
1997	113,950,892	16,278,699		
1998	116,198,694	16,599,813		
1999	130,942,359	18,706,051		
2000	143,169,400	20,452,771		
2001	129,361,300	18,480,186		
2002	154,801,876	22,114,554	1,351,190	1637%
2003	158,202,742	22,600,392	3,928,636	575%
2004	182,097,721	26,013,960	8,766,144	297%
2005	168,130,444	24,018,635	21,167,909	113%
2006	160,699,222	22,957,032	45,989,894	50%
2007	125,871,823	17,981,689	79,194,161	23%
Total	1,781,379,604	254,482,801	160,397,934	159%

Notes: I assume a 40% gross profit margin prior to the hypothetical 5% price reduction. Under these assumptions, defendants must sell at least 14% more units for a 5% price reduction to be profitable. Defendant tube production in 1995 and 2007 is limited to the months included in the class period.

Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
Total damages data; see Exhibit 84.

Source File(s): total_damages_exhibits.do; total_damages_exhibits.xlsx

Gain in CDT Sales Necessary for 20% Price Decline to be Profitable

Year	Defendant CDT Production	Additional Sales Needed for 20% Price Decline to be Profitable	Total LCD Monitor Sales	Critical Gain/Total LCD Monitor Sales
1995	47,818,389	47,818,389		
1996	66,382,000	66,382,000		
1997	71,545,000	71,545,000		
1998	80,532,000	80,532,000		
1999	96,120,000	96,120,000	4,490,422	2141%
2000	105,066,000	105,066,000	6,137,542	1712%
2001	82,000,000	82,000,000	15,712,661	522%
2002	80,193,000	80,193,000	32,190,361	249%
2003	65,126,000	65,126,000	49,205,397	132%
2004	65,635,000	65,635,000	68,973,084	95%
2005	46,963,869	46,963,869	106,156,730	44%
2006	32,173,986	32,173,986	131,369,756	24%
2007	17,872,152	17,872,152	162,519,167	11%
Total	857,427,395	857,427,395	576,755,120	149%

Note(s): I assume a 40% gross profit margin prior to the hypothetical 20% price reduction. Under these assumptions, defendants must sell at least 100% more units for a 20% price reduction to be profitable. Defendant tube production in 1995 and 2007 is limited to the months included in the class period.

Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.

Total damages data; see Exhibit 84.

Source File(s): total_damages_exhibits.do; total_damages_exhibits.xlsx

Glass Meeting Attendees

Date	Chunghwa	LG	Daewoo	Samsung	Hitachi	Panasonic	Mitsubishi	Toshiba	Philips	LPD	MTPD	Thai CRT	IRICO	Sanitel	Thomson	Citation
8/23/1999	X	X	X	X								X				23 August 1999, TV Glass Meeting Agenda, CHU00029070 - CHU00029082.
10/20/1999	X	X						X								Ross, David, 20 October 1999, Glass Meeting Report, CHU00029044 - CHU00029045.
11/11/1999	X	X	X	X				X								Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 11 November 1999, Contact Report, Topic: European TV Glass Meeting, CHU00030917 - CHU00030919.
9/18/2000	X	X	X	X				X								CPT, David Ross, 18 September 2000, Report on Glass Meeting, CHU00022728 - CHU00022730.
2/23/2001	X	X	X	X				X								Lee, Jae In, 23 February 2001, GSM Meeting (SDI), SDCRT-0087405 - SDCRT-0087407.
3/19/2001	X	X	X	X				X								Lee, Jae In, 19 March 2001, GSM March MTG (Philips), SDCRT-0087408 - SDCRT-0087410.
4/19/2001	X	X	X	X				X								Lee, Jae In, 19 April 2001, GSM (LG office), SDCRT-0087411 - SDCRT-0087413.
6/26/2001	X	X	X	X				X			X					Samsung, 26 June 2001, TV Glass meeting, SDCRT-0005831 - SDCRT-0005842.
6/27/2001	X		X	X					X							Lee, Jae In, 27 June 2001, GSM MTG (Orion), SDCRT-0087417 - SDCRT-0087422.
10/15/2001	X	X	X	X				X								Lee, Jae In, 15 October 2001, GSM MTG (SDI), SDCRT-0087427 - SDCRT-0087429.
12/17/2001	X	X	X	X				X								Samsung SDI, 17 December 2001, GSM Meeting, SDCRT-0087437 - SDCRT-0087440.
2/?/?02	X	X						X								Lin, Chieng-Yuan, Liu, Chih-Chun, et al., 6 March 2002, GSM Meeting Glasgow 0202, CHU00022583 - CHU00022585.
3/20/2002	X		X	X				X								Chunghwa Picture Tubes, LTD, 20 March 2002, 3/20 GSM TV Tube Market Condition Explanation, CHU00123746 - CHU00123747.
4/22/2002	X	X	X	X				X								Samsung SDI, 22 April 2002, GSM Meeting Log in April of 2002, SDCRT-0087743 - SDCRT-0087744.
5/28/2002	X	X	X	X				X								28 May 2002, Glass Meeting, SDCRT-0007588 - SDCRT-0007594.
10/25/2002		X	X	X				X					X			Samsung, 25 October 2002, GSM MTG, SDCRT-0087708 - SDCRT-0087718.
11/25/2002		X	X	X				X					X			Samsung, 25 November 2002, GSM Meeting, SDCRT-0087719 - SDCRT-0087736.
2/21/2003	X					X		X	X	X						Chunghwa Picture Tubes, LTD Picture Tubes (Fuzhou), Yeh, Chung-Cheng (Alex), 21 February 2003, Market Visitation (Glass Meeting) Report (For Submission), CHU00030557 - CHU00030558.
3/21/2003	X		X	X				X								CPT, 21 March 2003, 3/21 '03 GSM Meeting, CHU00014182 - CHU00014185.
5/22/2003	X		X	X				X	X	X						Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 22 May 2003, Market Visitation Report (Glass Meeting), CHU00030547 - CHU00030552.
8/5/2003			X	X				X	X	X						Samsung Samsung SDI, 05 August 2003, 1st Glass TOP MEETING Results Report, SDCRT-0088726 - SDCRT-0088730.
9/5/2003	X		X					X	X	X						Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 05 September 2003, Market Visitation Report (TV Glass Meeting), CHU00030060 - CHU00030063.
10/29/2003	X		X	X				X								Samsung Samsung SDI, 29 October 2003, CDT Glass Meeting Results Report, SDCRT-0088819 - SDCRT-0088821.
11/7/2003	X		X	X				X	X	X						CPT, 07 November 2003, Market Visitation Report (Glass Meeting), CHU00030071 - CHU00030078.
11/12/2003	X		X	X				X	X	X						Yang, Sheng-Jen (S.J.), Chen, Shih-Ming (Maxim), 12 November 2003, Marketing Contact Report (Glass meeting), CHU00030058 - CHU00030059.
11/28/2003			X					X	X	X						Samsung Samsung SDI, 28 November 2003, 9 GLASS MTG, SDCRT-0088743 - SDCRT-0088748.

Date	Chunghwa	LG	Daewoo	Samsung	Hitechi	Panasonic	Mitsubishi	Toshiba	Philips	LPD	MTPD	Thal CRT	IRICO	Samtel	Thomson	Citation
2/16/2004	X			X					X	X	X	X				Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 16 February 2004, Market Visitation Report (Glass Meeting), CHU00030036 - CHU00030039.
3/8/2004	X		X						X							Samsung Samsung SDI, 08 March 2004, Report on Glass MTG Results, SDCRT-0090278 - SDCRT-0090279.
3/16/2004	X		X						X	X	X					Chen, Shih-Ming (Maxim), 16 March 2004, Market Visitation Report (Glass Meeting), CHU00124020 - CHU00124021.
4/23/2004	X		X						X	X	X					23 April 2004, Market Visitation Report (Glass Meeting), CHU00030533 - CHU00030536.
5/18/2004	X		X						X	X	X					Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 18 May 2004, Market Visitation Report (Glass Meeting), CHU00030530 - CHU00030532.
06/??/04	X		X						X							Samsung Samsung SDI, June 2004, Report the results of the Glass Working Meeting, SDCRT-0090312 - SDCRT-0090313.
6/18/2004	X		X						X	X	X					Chen, Shih-Ming (Maxim), 18 June 2004, Marketing Visitation Report (Glass Meeting), CHU00124116 - CHU00124118.
7/22/2004	X		X						X	X	X					22 July 2004, Market Visitation Report (Glass Meeting), CHU00030520 - CHU00030523.
7/26/2004	X		X						X							Lee, Jae In, 26 July 2004, SDI CDT glass MTG - Itinerary, SDCRT-0090322 - SDCRT-0090328.
9/17/2004	X		X						X	X	X					Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 17 September 2004, Marketing Contact Report (Glass Meeting), CHU00030506 - CHU00030511.
11/5/2004	X		X						X	X	X					05 November 2004, Marketing Contact Report (Glass Meeting), CHU00030502 - CHU00030504.
11/15/2004	X		X						X							Samsung Samsung SDI, 15 November 2004, Report the results of the Glass working meeting on Nov. 15, SDCRT-0090350 - SDCRT-0090353.
12/28/2004	X		X						X	X	X					Yang, Chen, Shih-Ming (Maxim), et al., 28 December 2004, Marketing Contact Report (Glass meeting), CHU00029990 - CHU00029993.
2/9/2005			X						X					X		Samsung SDI, 09 February 2005, Glass meeting in Amsterdam, SDCRT-0091491 - SDCRT-0091504.
2/25/2005	X		X						X	X	X					Veronica, Jess, 25 February 2005, Marketing Contact Report (Glass Meeting), CHU00030499 - CHU00030499.
3/22/2005			X						X					X		Samsung, 22 March 2005, Glass Meeting in Amsterdam, SDCRT-0002984 - SDCRT-0002988.
4/26/2005	X		X						X							Chunghwa Picture Tubes, LTD, 26 April 2005, 4/26 '05 GSM (Seoul), CHU00735380 - CHU00735393.
4/29/2005	X		X						X	X	X					Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 29 April 2005, Market Visitation Report (Glass Meeting), CHU00030495 - CHU00030496.
6/9/2005	X		X						X	X	X					Chen, Shih-Ming (Maxim), 09 June 2005, Market Visitation Report (Glass Meeting), CHU00030491 - CHU00030494.
8/8/2005	X		X						X							Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 08 August 2005, Glass Meeting Meeting Information, CHU00017069 - CHU00017074.
9/19/2005	X		X						X	X	X					Chunghwa Picture Tubes, LTD, 19 September 2005, GSM meeting material, CHU00017092 - CHU00017099.
9/22/2005	X		X						X	X	X					Chen, Hwang-Yun (Henry), Chen, Mu-Lin (Jimmy), 22 September 2005, Market Visitation Report (Glass Meeting), CHU00030472 - CHU00030473.

Date	Chunghwa	LG	Daewoo	Samsung	Hitachi	Panasonic	Mitsubishi	Toshiba	Philips	LPD	MTPD	Thai CRT	IRICO	Samtel	Thomson	Citation
9/28/2005	X			X						X						Chunghwa Picture Tubes, LTD, 28 September 2005, GSM Top Management Meeting, CHU00014230 - CHU00014231.
10/21/2005	X		X							X	X	X				Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 21 October 2005, Market Visitation Report (Glass Meeting), CHU00030468 - CHU00030471.
10/24/2005	X			X						X						CPT, 31 October 2005, Subject: GLASSMEETING Meeting Materials, CHU00017125 - CHU00017129.
11/21/2005	X		X							X						Samsung SDI, LG Philips Displays, et al., 21 November 2005, GSM Meeting, CHU00014227 - CHU00014229.
12/6/2005	X			X						X	X	X				Chen, Mu-Lin (Jimmy), 06 December 2005, Market Visitation Report (Glass Meeting), CHU00030465 - CHU00030467.
12/20/2005	X		X							X						20 December 2005, December Period CDT GSM Meeting, CHU00125657 - CHU00125658.
3/9/2006	X			X						X	X	X				Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 09 March 2006, Market Visitation Report (Glass Meeting), CHU00030458 - CHU00030469.
3/14/2006	X		X							X						14 March 2006, Visitation Report (GSM Meeting), CHU00014215 - CHU00014217.
5/8/2006	X			X						X						Lu, Wei-Rong (Bruce), 08 May 2006, Subject: Glass Meeting Meeting Information, CHU00032196 - CHU00032196.
9/5/2006	X		X							X	X	X				Chunghwa Picture Tubes, LTD Picture Tubes, LTD, 05 September 2006, Market Visitation Report (Glass Meeting), CHU00030449 - CHU00030457.
11/9/2006	X			X						X	X	X				Chen, Mu-Lin (Jimmy), November 2006, Market Visitation Report (Glass Meeting), CHU00119571 - CHU00119573.
2/7/2007	X		X							X	X					Jimmy, Wu, Meng Ying, 7 February 2007, Market Visitation Report (Glass Meeting), CHU00030437 - CHU00030438.

Cartel Meetings Resulting in Capacity or Production Control

Meeting Date	Bates Number	Manufacturer	Type	Capacity Control	Production Control
11/23/1996	CHU00028786	Chunghwa, Orion, Samsung	CDT	X	X
1/28/1997	CHU00028768	Chunghwa, Orion, Philips, Samsung	CDT		X
2/24/1997	CHU00028763	Chunghwa, Orion, Philips, Samsung	CDT		X
3/12/1997	CHU00028758	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
7/31/1998	SDCRT-0086419	Chunghwa, LG, Philips, Samsung	CDT		X
9/7/1998	SDCRT-0086421	Chunghwa, LG, Orion, Philips, Samsung	CDT	X	X
9/8/1998	CHU00030670	Chunghwa, LG, Orion, Samsung	CPT		X
11/6/1998	CHU00030684	Chunghwa, Irco, Matsushita, Orion, Philips, Samsung	CDT		X
11/30/1998	SDCRT-0086445	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
12/11/1998	SDCRT-0086449	Chunghwa, Orion, Philips	CDT		X
3/1/1999	CHU00030720	Chunghwa, LG	CDT		X
3/15/1999	CHU00030731	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
3/22/1999	SDCRT-0086577	Chunghwa, LG, Orion, Philips	CDT		X
3/31/1999	SDCRT-0086569	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
4/10/1999	SDCRT-0086584	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
5/21/1999	SDCRT-0086632	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
5/23/1999	TSB-CRT-00045123	Irco, LG, Matsushita, Novel, Philips, SEG-Hitachi, Samsung, Thomson	CPT		X
6/23/1999	CHU00030787	LG, Orion, Samsung	CDT		X
7/23/1999	CHU00030809	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
8/20/1999	CHU00030835	Chunghwa, LG, Orion, Philips, Samsung	CDT	X	X
8/22/1999	CHU00030839	LG, Orion, Samsung	CDT		X
9/7/1999	SDCRT-0086691	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
9/20/1999	CHU00030855	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
1/24/2000	CHU00029152	Chunghwa, LG, Orion, Philips, Samsung, Thai-CRT	CPT		X
1/24/2000	CHU00030960	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
2/24/2000	CHU00030965	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
3/31/2000	CHU00030985	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
4/10/2000	CHU00030998	Samsung	CDT		X
5/9/2000	CHU00031002	Samsung	CPT and CDT		X
5/26/2000	CHU00031006	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
6/6/2000	CHU00031017	Samsung	CDT		X
6/20/2000	CHU00031010	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
8/11/2000	CHU00031040	Samsung	CDT		X

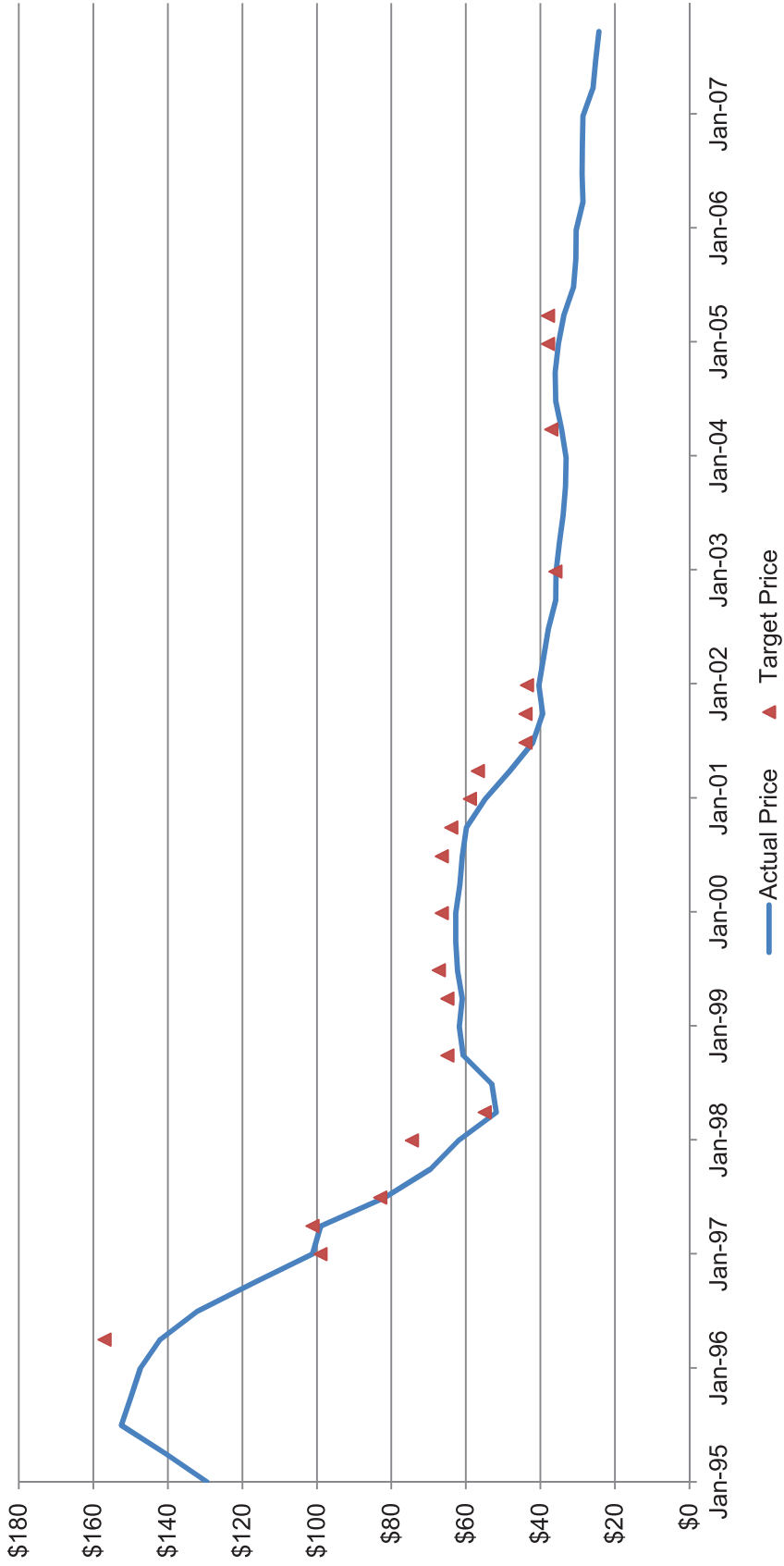
Meeting Date	Bates Number	Manufacturer	Type	Capacity Control	Production Control
9/14/2000	CHU00031044	Samsung	CDT		X
9/27/2000	CHU00031067	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
10/25/2000	CHU00031075	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
11/29/2000	SDCRT-0087393	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
2/23/2001	SDCRT-0087405	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
3/19/2001	CHU00031111	Chunghwa, LG, Philips, Samsung	CDT		X
4/19/2001	CHU00024554	Chunghwa, LG, Orion, Philips, Samsung	CDT		X
4/24/2001	SDCRT-0087340	Guangdong, Irco, LG, MTPD, Novel, Philips, SEG-Hitachi, Thomson	CPT		X
4/26/2001	CHU00006004	Chunghwa	CDT		X
6/27/2001	CHU00660306	Chunghwa, LPD, Orion, Samsung	CDT	X	X
7/5/2001	SDCRT-0087664	Orion, Philips, Thomson	CPT		X
7/24/2001	CHU00031150	Chunghwa, LG, Orion, Samsung	CDT		X
8/28/2001	CHU00660408	Chunghwa, LPD, Orion, Samsung	CDT	X	X
10/15/2001	SDCRT-0087427	Chunghwa, LPD, Orion, Samsung	CDT	X	X
11/20/2001	CHU00660337	Chunghwa, LPD, Orion, Samsung	CDT	X	
1/9/2002	SDCRT-0087741	Chunghwa	CPT and CDT	X	
2/25/2002	TSB-CRT-00041862	Samsung	CDT	X	
11/14/2002	CHU00660476	Chunghwa, LPD, Samsung	CDT	X	
11/28/2002	CHU00660487	Chunghwa, LPD, Samsung	CDT	X	
1/1/2003	CHU00031804	Chunghwa, LPD, Samsung	CDT	X	X
5/30/2003	CHU00660549	Chunghwa, LPD, Samsung	CDT	X	
6/17/2003	CHU00660561	Chunghwa, LPD, Samsung	CDT	X	
6/19/2003	CHU00660213	Chunghwa, LPD, Samsung	CDT	X	
7/29/2003	CHU00031190	LPD, Samsung	CDT	X	
8/28/2003	CHU00031194	Chunghwa, LPD, Samsung	CDT	X	
11/7/2003	SDCRT-0088826	Chunghwa, LPD, Samsung	CDT	X	
11/21/2003	SDCRT-0088635	LPD, Samsung, Thomson	CPT		X
12/5/2003	CHU00031214	Chunghwa, LPD, Samsung	CDT	X	
1/30/2004	CHU00031227	Chunghwa, LPD, Samsung	CDT	X	
3/2/2004	SDCRT-0090258	Chunghwa, LPD, Samsung	CDT	X	
8/18/2004	CHU00031272	Chunghwa, LPD, Samsung	CDT		X
10/13/2004	CHU00735299	Chunghwa, LPD, Samsung	CDT	X	
10/26/2004	SDCRT-0090339	Chunghwa, LPD, Samsung	CDT	X	
11/15/2004	CHU00578883	Chunghwa, LPD, Samsung	CDT	X	
11/30/2004	SDCRT-0090355	Chunghwa, LPD, Samsung	CDT		X

Meeting Date	Bates Number	Manufacturer	Type	Capacity Control	Production Control
1/19/2005	SDCRT-0091599	Chunghwa, LPD, Samsung	CDT	X	
2/9/2005	SDCRT-0091491	LPD, Samsung, Thomson	CPT		X
2/14/2005	CHU00735253	Chunghwa, LPD, Samsung	CDT	X	
2/24/2005	SDCRT-0091605	Chunghwa, LPD, Samsung	CDT	X	
3/29/2005	SDCRT-0091616	Chunghwa, LPD, Samsung	CDT	X	
4/26/2005	CHU00014204	Chunghwa, LPD, Samsung	CDT	X	
5/25/2005	SDCRT-0091643	Chunghwa, LPD, Samsung	CDT	X	
6/28/2005	SDCRT-0091661	Chunghwa, LPD, Samsung	CDT	X	
9/28/2005	CHU00014230	Chunghwa, LPD, Samsung	CDT	X	
3/13/2006	SDCRT-0091715	Chunghwa, LPD, Samsung	CDT	X	
11/21/2006	CHU00102752	MTPD	CPT		X

Cartel Agreements to Reduce CDT Capacity by Shutting Down Production Lines

Years	Description	Source(s)
2001 - 2002	In 2001, members of the cartel agreed "to stop the production of 30% of the current [CDT] production lines for one year in order to effectively decrease capacity and control prices." They planned a three-step process between July 2001 and September 2001. LPD agreed to shut down six lines, Samsung five lines, Chunghwa five lines, and Orion one and a half lines during this period.	Chunghwa Picture Tubes, LTD, 27 June 2001, Visitation Report, CHU00660306 - CHU00660311, at 0309E - 3010E.
	By the end of 2002, each cartel member had met or exceeded the agreed-upon number of line shutdowns.	Chunghwa Picture Tubes, LTD, 23 January 2002, Visitation Report, Main Topic: CDT Market Information Exchange and Price/Production Review, CHU00031180 - CHU00031181, at 1181E.
		Chunghwa Picture Tubes, LTD, 27 December 2002, Itinerary, CHU00660487 - CHU00660500, at 0495.
2003 - 2004	Cartel meeting notes from December 27, 2002 lay out the cartel's line shutdown plan for CDTs in 2003. LPD was to shut down two lines and add one for a net decline of one line by June 2003, Samsung was to shut down two lines by June 2003, and Chunghwa was to shut down one line by May 2003 and another by June 2003.	Chunghwa Picture Tubes, LTD, 27 December 2002, Itinerary, CHU00660487 - CHU00660500, at 0495.
	It took somewhat longer to shutter the agreed-upon number of lines: Slides from a December 5, 2003 meeting provide a chart that illustrates that LPD needed to shut down two lines, Samsung half a line, and Chunghwa no lines to fulfill previous agreements.	Yuan, 05 December 2003, CDT Market Report, CHU00031214 - CHU00031220, at 1219E.
	By September 2004 all cartel member had met their obligations, except for Samsung, which had only shutdown one of the promised two lines. The cartel rolled over Samsung's planned line shutdown to the 2005 plan discussed in the following section.	Chunghwa Picture Tubes, LTD, 21 September 2004, Itinerary, CHU00660728 - CHU00660735, at 0732.
2005 - 2006	In 2005, the cartel created a line shutdown plan calling for each of LPD, Samsung, and Chunghwa to shut down a CDT line in each of the first three quarters of 2005 for a total shut down of nine lines.	Samsung, June 2005, Agenda, SDCRT-0091661 - SDCRT-0091667, at 1666.
	Cartel meeting notes from February 2005 state that "each maker has stopped one production line since January".	Chunghwa Picture Tubes, LTD, 23 February 2005, Overseas Trip Report, CHU00608095 - CHU00608105, at 8095.01E.
	As of March 2006, Samsung needed to shut down one and a half lines to reach the total of three lines, while LPD and Chunghwa had shut down the necessary three lines to fulfill the cartel agreement.	Samsung SDI, 13 March 2006, Main Discussion Agenda, SDCRT-0091715 - SDCRT-0091718, at 1716E.

Price of 15-Inch CDTs



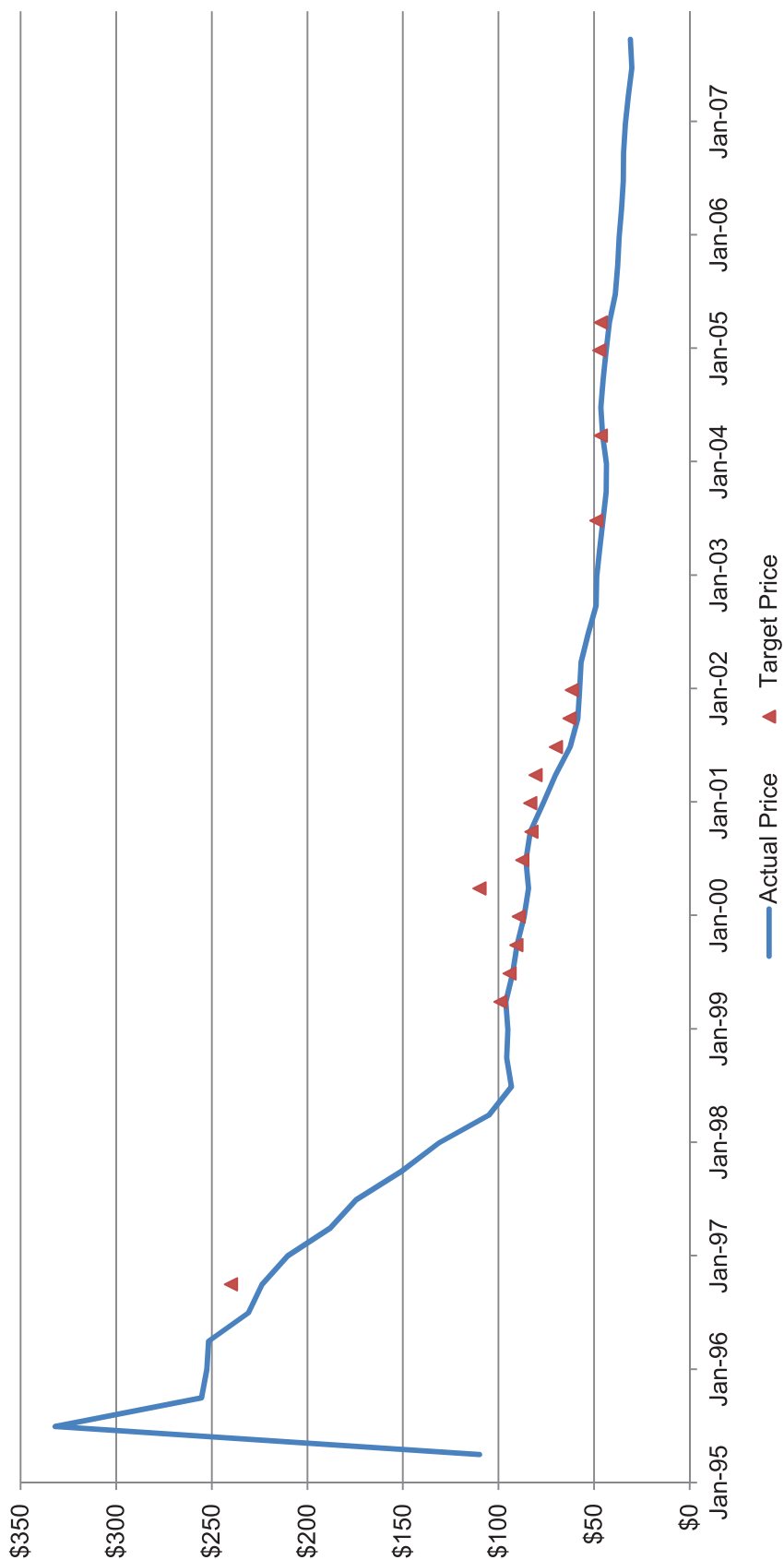
Note(s): Actual and target prices are quantity-weighted averages according to quantity sold in the Defendant data.

Data source(s): Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source file(s): Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; data for graph exhibits.do; data for graph exhibits.xlsx

Price of 17-Inch CDTs



Note(s): Actual and target prices are quantity-weighted averages according to quantity sold in the Defendant data.

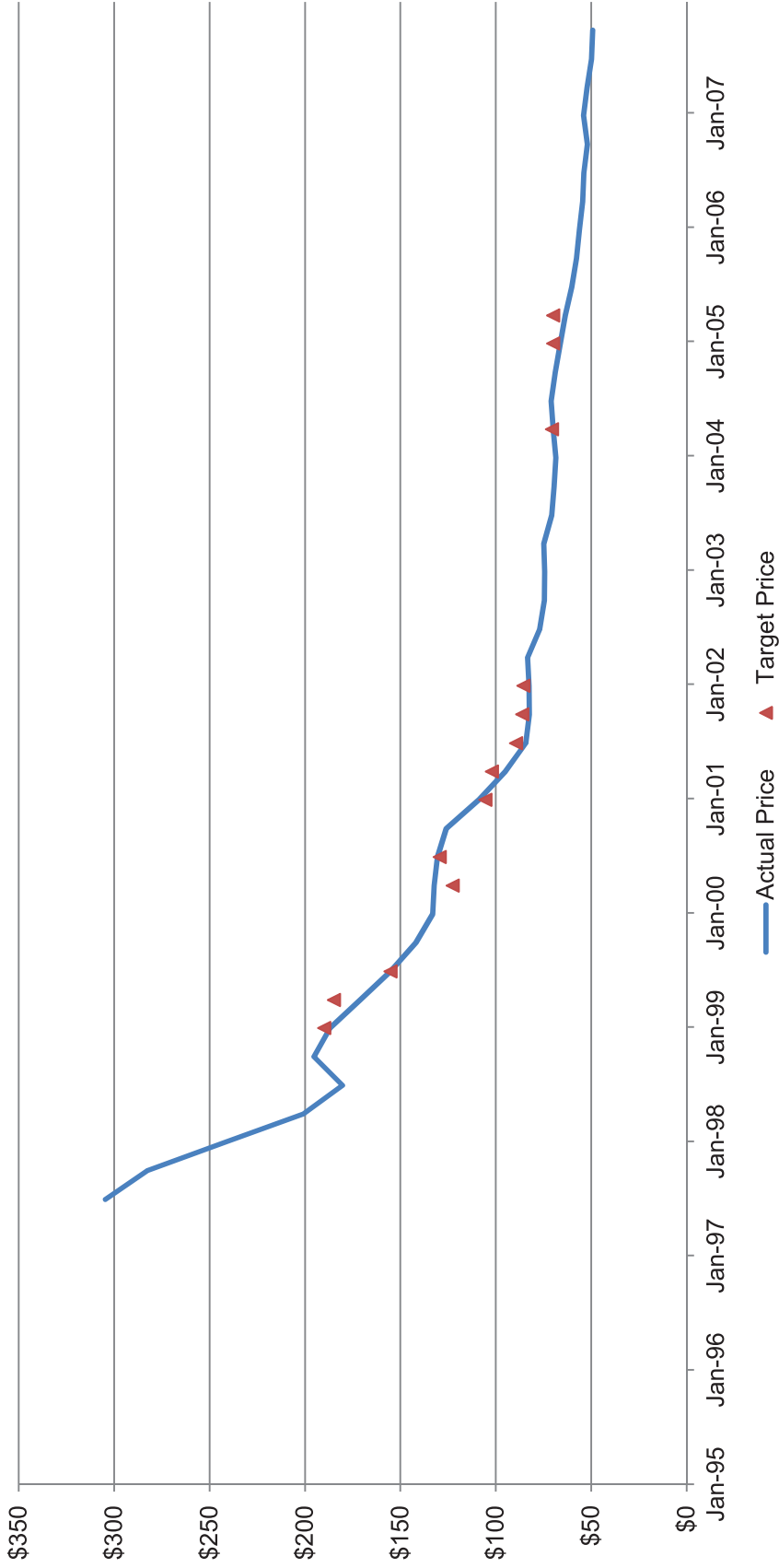
There is only one 17-inch CDT observation in Defendant data for 2Q 1995.

Data source(s): Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source file(s): Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; data for graph exhibits.do; data for graph exhibits.xlsx

Price of 19-Inch CDTs



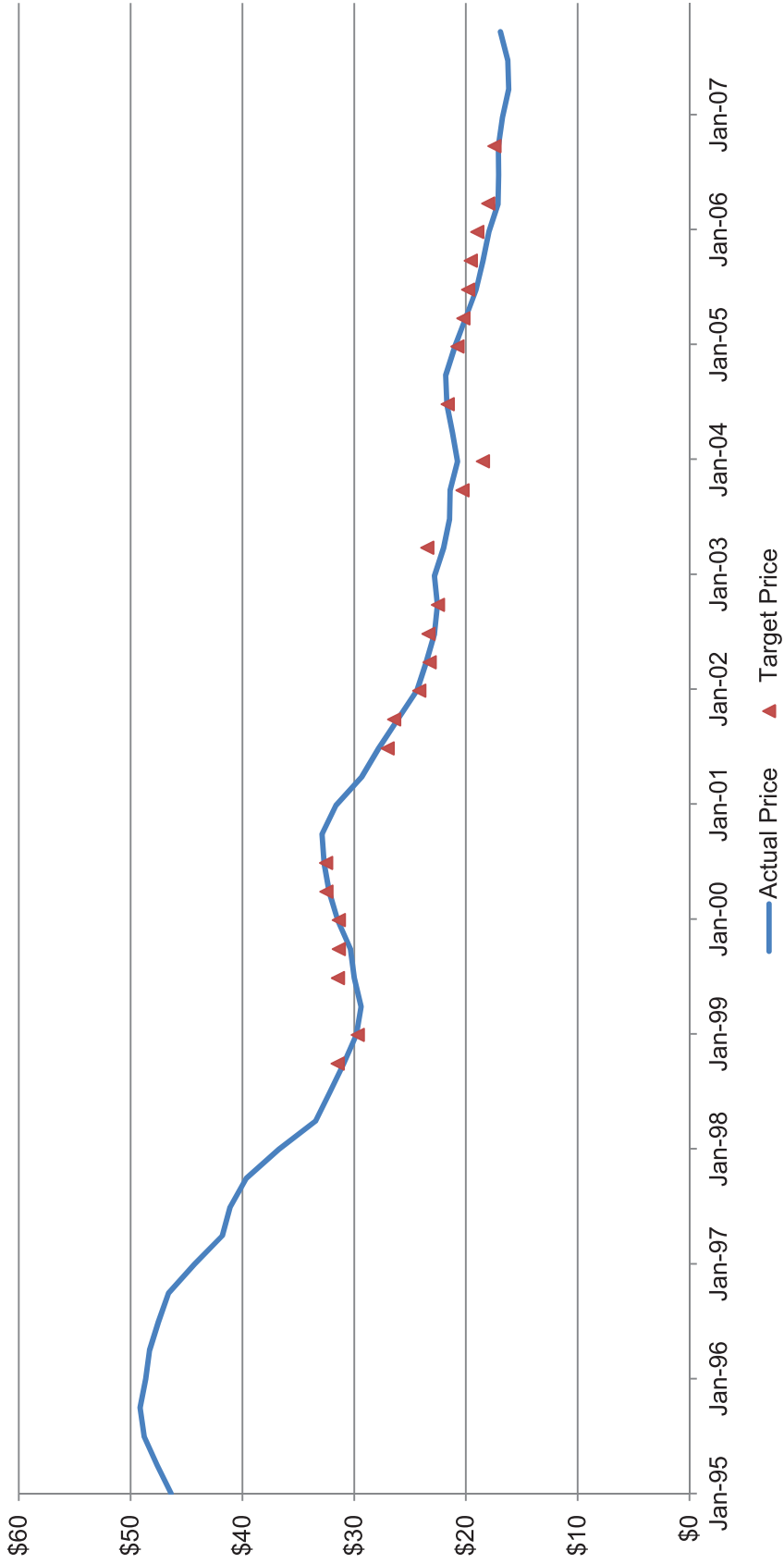
Note(s): Actual and target prices are quantity-weighted averages according to quantity sold in the Defendant data.

Data source(s): Defendant data; see Exhibit 64.

Source file(s): Cartel meeting notes; see Target price-structure.xlsx.

Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; data for graph exhibits.do; data for graph exhibits.xlsx

Price of 14-Inch CPTs



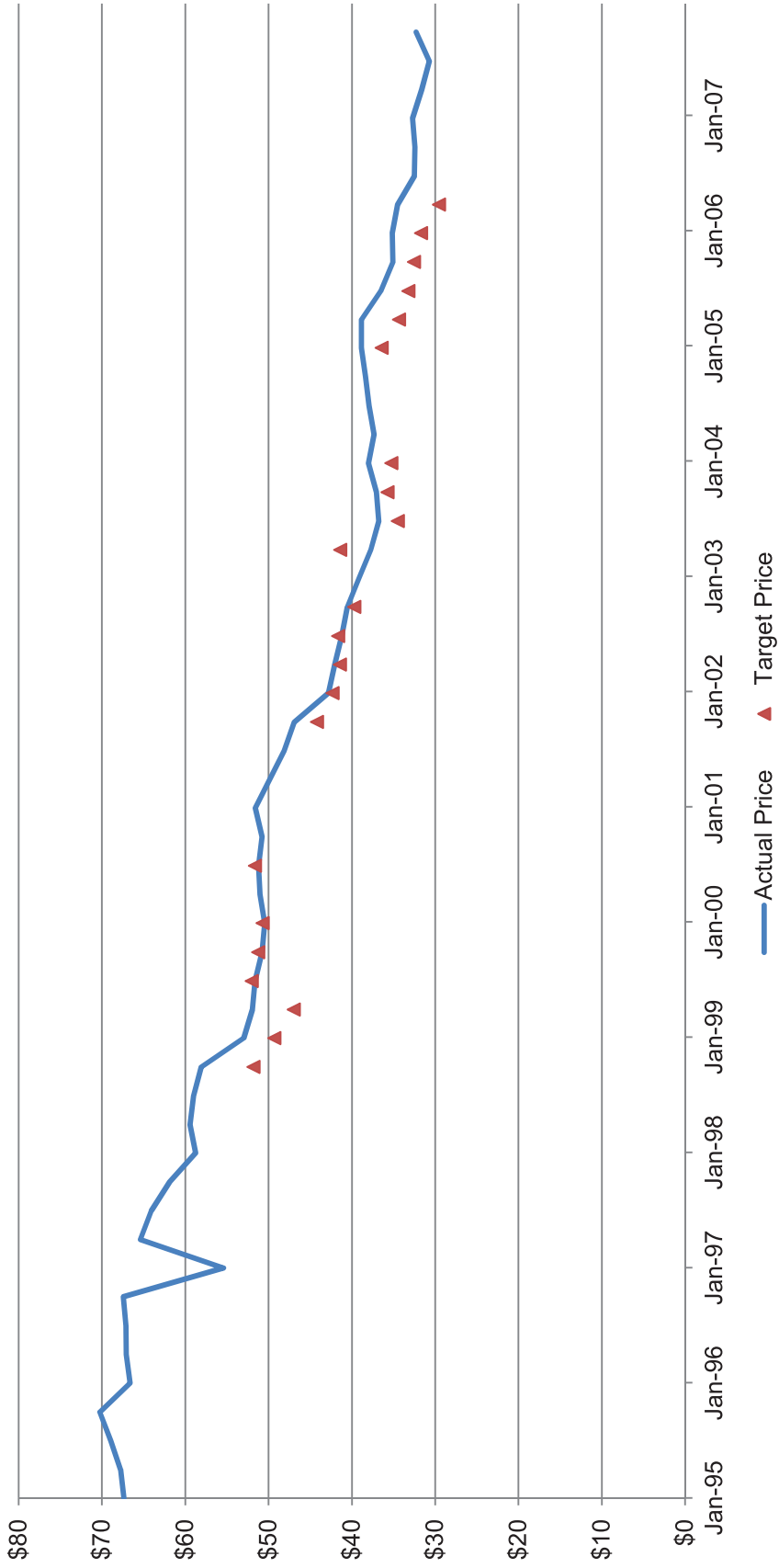
Note(s): Actual and target prices are quantity-weighted averages according to quantity sold in the Defendant data.

Data source(s): Defendant data; see Exhibit 64.

Source file(s): Cartel meeting notes; see Target price-structure.xlsx.

combine_target_defendant.do; data for graph exhibits.do; data for graph exhibits.xlsx
 Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do;

Price of 20-Inch CPTs



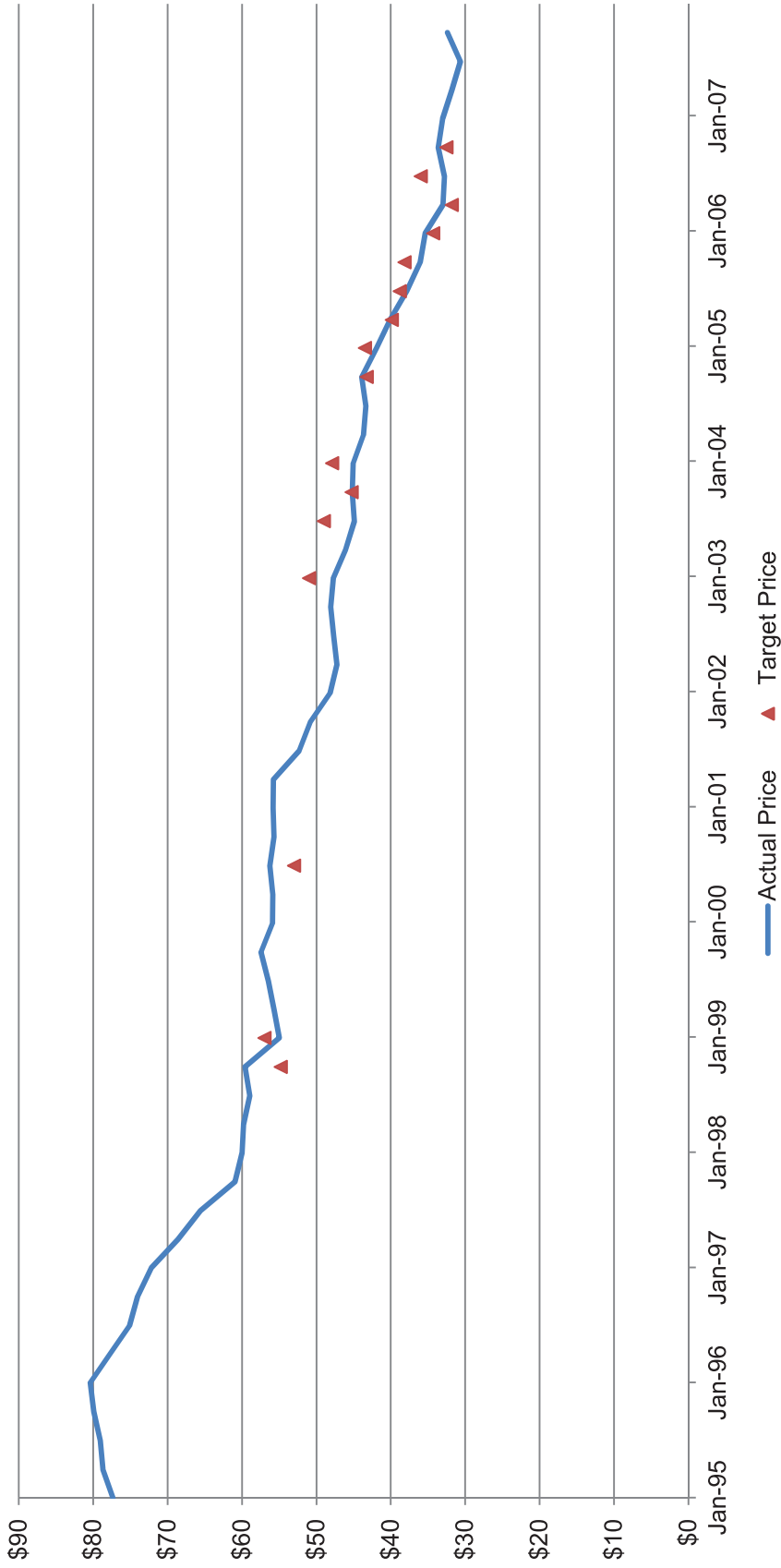
Note(s): Actual and target prices are quantity-weighted averages according to quantity sold in the Defendant data.

Data source(s): Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source file(s): Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; data for graph exhibits.do; data for graph exhibits.xlsx

Price of 21-Inch CPTs



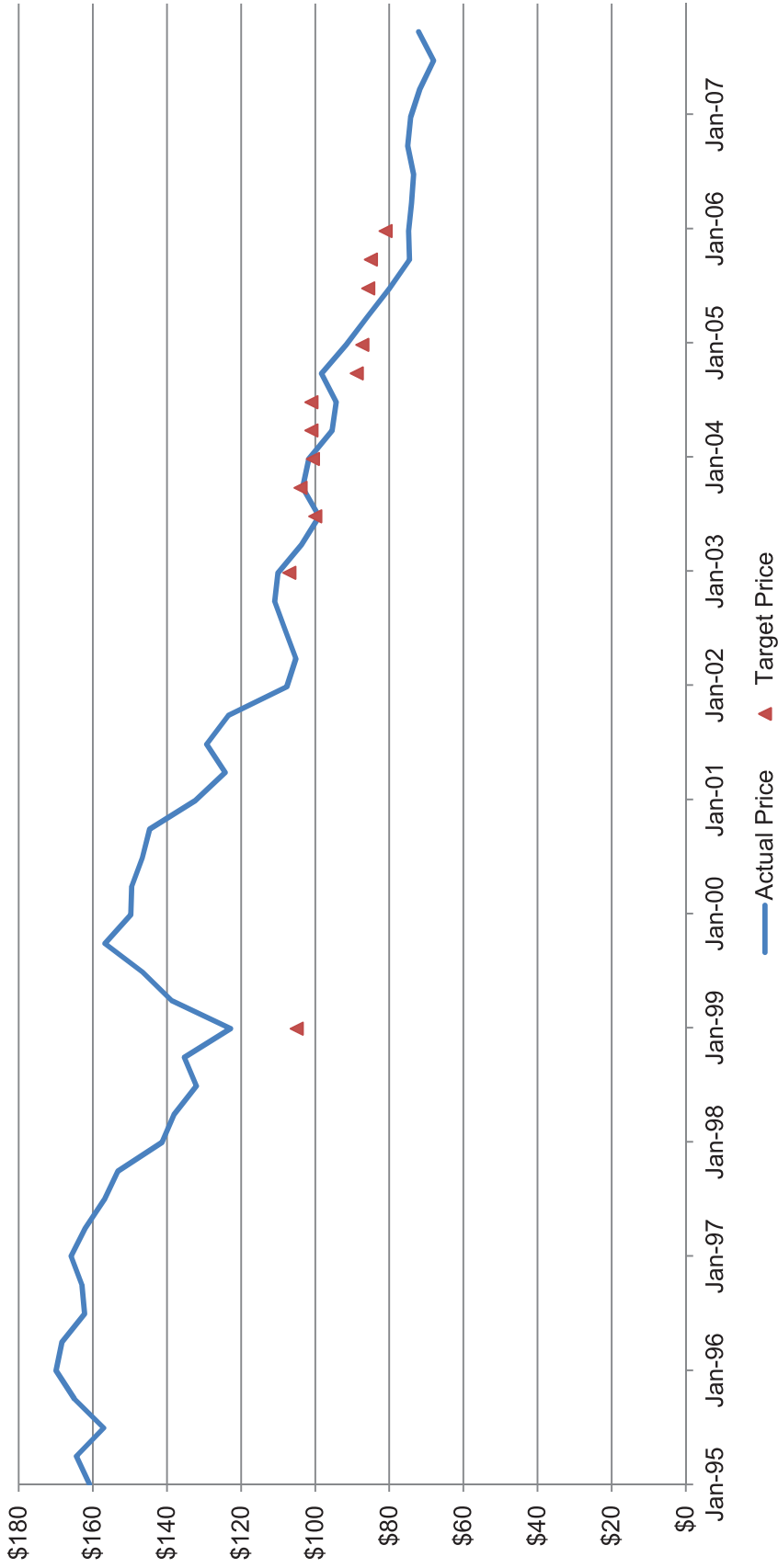
Note(s): Actual and target prices are quantity-weighted averages according to quantity sold in the Defendant data.

Data source(s): Defendant data; see Exhibit 64.

Source file(s): Cartel meeting notes; see Target price-structure.xlsx.

combine_target_defendant.do; data for graph exhibits.do; data for graph exhibits.xlsx

Price of 29-Inch CPTs



Note(s): Actual and target prices are quantity-weighted averages according to quantity sold in the Defendant data.

Data source(s): Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source file(s): Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; data for graph exhibits.do; data for graph exhibits.xlsx

Target Price Regression Results - CDTs

Regression of Actual Prices on Target Prices

By Customer, Manufacturer, Size, and Finish

Dependant variable is Ln(Actual Price)

Variable	Coefficient	Standard Error	P-Value (two-sided)
Ln(Previous Quarter's price)	0.312	0.047	0.000
Ln(Target Price)	0.556	0.032	0.000
Ln(Price of Glass) × Size	0.018	0.004	0.000
Ln(Industrial Production)	0.556	0.125	0.000
Unemployment Rate	0.072	0.012	0.000
Constant	-3.917	0.698	0.000

Fixed Effects by customer, manufacturer, size, and finish

Number of observations 3,826

R-squared 0.84

Data Source(s): Organisation for Economic Co-operation and Development, 03 January 2014, Production and Sales (MEI): Production, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=90#>, accessed 03 January 2014.

Organisation for Economic Co-operation and Development, 03 January 2014, Key Short-Term Economic Indicators: Harmonised Unemployment Rate, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=21760>, accessed 03 January 2014.

Bank of Korea, Undated, Glass for CRT Use.

Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source File(s): Target price-structure.xlsx; vendor_map.xlsx; vendor_map.do; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; target_price_regressions.do; target_regression_exhibits.do; target_regression_exhibits.xlsx

Target Price Regression Results - CPTs

Regression of Actual Prices on Target Prices

By Customer, Manufacturer, Size, and Finish

Dependant variable is Ln(Actual Price)

Variable	Coefficient	Standard Error	P-Value (two-sided)
Ln(Previous Quarter's price)	0.466	0.050	0.000
Ln(Target Price)	0.342	0.033	0.000
Ln(Price of Glass) × Size	0.006	0.001	0.000
Ln(Industrial Production)	-0.108	0.117	0.357
Unemployment Rate	-0.011	0.007	0.132
Constant	0.693	0.664	0.296

Fixed Effects by customer, manufacturer, size, and finish

Number of observations 6,046

R-squared 0.96

Data Source(s): Organisation for Economic Co-operation and Development, 03 January 2014, Production and Sales (MEI): Production, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=90#>, accessed 03 January 2014.

Organisation for Economic Co-operation and Development, 03 January 2014, Key Short-Term Economic Indicators: Harmonised Unemployment Rate, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=21760>, accessed 03 January 2014.

Bank of Korea, Undated, Glass for CRT Use.

Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source File(s): Target price-structure.xlsx; vendor_map.xlsx; vendor_map.do; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; target_price_regressions.do; target_regression_exhibits.do; target_regression_exhibits.xlsx

Price Differentials Set by Cartel

Price Differential	High Price Condition	Low Price Condition	Size	Base Model Shape	Meeting Date	Effective Date	Bates Number
\$2.00	ITC	B+D	14	Round	11/23/1996	11/23/1996	CHU00028786
\$2.00	Other Manufacturers	Daewoo	14	Round	1/28/1997	2/1/1997	CHU00028768
\$5.00	All Except Chungwa	Chungwa	15	Round	2/25/1997	4/1/1997	CHU00028760
\$2.50	With Coil	Without Coil	15	Round	3/26/1997	4/1/1997	CHU00028746
\$2.00	MPRII	ASC	14	Round	3/26/1997	4/1/1997	CHU00028746
\$2.00	With Coil	Without Coil	15	Round	3/26/1997	4/1/1997	CHU00028746
\$2.00	MPRII	ASC	15	Round	3/26/1997	4/1/1997	CHU00028746
\$2.00	With Coil	Without Coil	14	Round	3/26/1997	4/1/1997	CHU00028746
\$1.50	With Coil	Without Coil	14	Round	3/26/1997	4/1/1997	CHU00028746
\$3.00	Samsung/Philips	Chungwa	15	Round	5/20/1997	5/1/1997	CHU00028725
\$3.00	Samsung/Philips	Chungwa	15	Round	5/20/1997	6/1/1997	CHU00028725
\$10.00	Short Length	Normal Length	19	Round	1/18/1999	1/18/1999	SDCRT-0086557
\$10.00	Short Length	Normal Length	19	Round	3/8/1999	5/1/1999	SDCRT-0086563
\$1.00	Standard Neck	Mini-neck	15	Round	6/23/1999	8/1/1999	CHU00030787
\$2.00	External Customers	Internal Customers	14	Round	6/23/1999	8/1/1999	SDCRT-0086641
\$2.00	Key Account	Internal Customers	15	Round	6/23/1999	8/1/1999	CHU00030787
Customers Outside of							
\$2.00	China and not Internal	Internal Customers	14	Round	6/23/1999	9/1/1999	CHU00030787
\$5.00	.26mm	.28mm	19	Round	7/28/1999	7/28/1999	CHU00030807
\$3.00	Daewoo	Chungwa	19	Round	8/10/1999	8/10/1999	CHU00030831
\$3.00	LPD	Chungwa	19	Round	8/10/1999	8/10/1999	CHU00030831
\$3.00	Samsung	Chungwa	19	Round	8/10/1999	8/10/1999	CHU00030831
\$3.50	ITC	Bare	14	Round	8/23/1999	4/1/1999	CHU00029179
\$3.50	ITC	Bare	14	Round	8/23/1999	7/1/1999	CHU00029179
\$4.50	ITC	Bare	20	Round	8/23/1999	7/1/1999	CHU00029179
\$4.50	ITC	Bare	20	Round	8/23/1999	4/1/1999	CHU00029179
\$1.00	Normal	Mini-neck	15	Round	9/20/1999	9/20/1999	CHU00030855
\$1.00	LPD	Irico	14	Round	10/11/1999	1/1/2000	CHU00029046
\$0.30	Arrival	CIF	14	Round	1/24/2000	1/1/2000	CHU00029152
\$4.50	ITC	Bare	20	Round	1/24/2000	1/1/2000	CHU00029152
\$0.30	Arrival	CIF	20	Round	1/24/2000	10/1/2000	CHU00029152
\$3.50	ITC	Bare	14	Round	1/24/2000	10/1/2000	CHU00029152
\$4.50	ITC	Bare	20	Round	1/24/2000	10/1/2000	CHU00029152
\$0.30	Arrival	CIF	20	Round	1/24/2000	1/1/2000	CHU00029152
\$0.30	Arrival	CIF	14	Round	1/24/2000	10/1/2000	CHU00029152
\$3.50	ITC	Bare	14	Round	1/24/2000	1/1/2000	CHU00029152
\$4.00	Mini-neck	Normal (Bare)	20	Round	3/7/2000	7/1/2000	CHU00029147

Price Differential	High Price Condition	Low Price Condition	Size	Base Model Shape	Meeting Date	Effective Date	Bates Number
\$4.00	Mini-neck	Bare	20	Round	3/24/2000	7/1/2000	CHU00029144
\$4.50	ITC	Bare	20	Round	3/24/2000	7/1/2000	CHU00029144
\$0.30	Arrival	CIF	20	Round	3/24/2000	7/1/2000	CHU00029144
\$0.30	Arrival	CIF	14	Round	3/24/2000	5/1/2000	CHU00029144
\$3.50	ITC	Bare	14	Round	3/24/2000	5/1/2000	CHU00029144
\$2.00	95KHz	85KHz	19	Round	5/26/2000	7/1/2000	CHU00031006
\$2.00	.25mm	.27mm	19	Round	5/26/2000	7/1/2000	CHU00031006
\$3.00	TCO	MPRII	19	Round	5/26/2000	7/1/2000	CHU00031006
\$1.00	Non-Key Account	Key Account	15	Round	6/9/2000	7/1/2000	CHU00028209
\$1.00	Non-Key Account	Key Account	17	Round	6/9/2000	7/1/2000	CHU00028209
\$1.00	Non-Key Account	Key Account	14	Round	6/9/2000	7/1/2000	CHU00028209
\$1.00	Mini-neck	Normal	15	Round	9/21/2000	9/21/2000	CHU00031051
\$2.00	Chunghwa	Irico	14	Round	2/15/2001	2/15/2001	CHU00031101
\$2.00	ITC	Non ITC	19	Round	12/28/2001	2/1/2002	CHU00031174
\$2.00	TCO	MPRII	19	Round	12/28/2001	2/1/2002	CHU00031174
\$1.50	ITC	Non ITC	17	Flat	12/28/2001	2/1/2002	CHU00031174
\$2.00	95KHz	85KHz	19	Round	12/28/2001	2/1/2002	CHU00031174
\$1.00	ITC	Non ITC	15	Round	12/28/2001	2/1/2002	CHU00031174
\$1.00	TCO	MPRII	17	Flat	12/28/2001	2/1/2002	CHU00031174
\$1.00	TCO	MPRII	17	Round	12/28/2001	2/1/2002	CHU00031174
\$1.50	ITC	Non ITC	17	Round	12/28/2001	2/1/2002	CHU00031174
\$1.00	Other Customers	Lite-on	17	Flat	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	AOC	17	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	Big Accounts	17	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$2.00	Other Customers	Internal Customers	15	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$2.00	Other Customers	Internal Customers	17	Flat	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	BenQ	17	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$2.00	Other Customers	Internal Customers	17	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	AOC	15	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	AOC	17	Flat	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	Big Accounts	15	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	BenQ	17	Flat	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	BenQ	15	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	Big Accounts	17	Flat	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	Lite-on	15	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	Other Customers	Lite-on	17	Round	1/29/2002	2/1/2002	TAEC-CRT-00089968
\$1.00	ITC	Non ITC	17	Round	9/24/2003	10/1/2003	CHU00031202
\$6.50	B+D	Bare	17	Round	9/24/2003	9/24/2003	CHU00031202
\$6.50	B+D	Bare	17	Round	9/24/2003	9/1/2003	CHU00031202

Price Differential	High Price Condition	Low Price Condition	Size	Base Model Shape	Meeting Date	Effective Date	Bates Number
\$1.00	ITC	Non ITC	17	Round	10/29/2003	1/1/2004	SDCRT-0088819
\$1.50	Higher Frequency	Lower Frequency	19	Flat	10/29/2003	1/1/2004	SDCRT-0088819
\$1.50	ITC	Non ITC	19	Round	10/29/2003	1/1/2004	SDCRT-0088819
\$0.75	MPR	Glare	17	Round	10/29/2003	1/1/2004	SDCRT-0088819
\$0.75	MPR	Glare	15	Round	10/29/2003	1/1/2004	SDCRT-0088819
\$1.00	TCO	MPR	19	Round	10/29/2003	1/1/2004	SDCRT-0088819
\$0.75	MPR	Glare	19	Round	10/29/2003	1/1/2004	SDCRT-0088819
\$0.50	TCO	MPR	17	Round	10/29/2003	1/1/2004	SDCRT-0088819
\$0.50	ITC	Non ITC	17	Flat	11/26/2003	1/1/2004	CHU00031214
\$0.50	TCO	MPRII	17	Round	11/26/2003	1/1/2004	CHU00031214
\$1.00 - \$2.50	MPRII	Glare/Anti-glare	17	Flat	11/26/2003	1/1/2004	CHU00031214
\$1.00 - \$1.50	MPRII	Glare/Anti-glare	15	Round	11/26/2003	1/1/2004	CHU00031214
\$1.00	ITC	Non ITC	17	Flat	11/26/2003	1/1/2004	CHU00031214
\$0.50	ITC	Non ITC	15	Round	11/26/2003	1/1/2004	CHU00031214
\$1.00	TCO	MPRII	19	Flat	11/26/2003	1/1/2004	CHU00031214
\$1.00	TCO	MPRII	19	Round	11/26/2003	1/1/2004	CHU00031214
\$1.50	ITC	Non ITC	19	Flat	11/26/2003	1/1/2004	CHU00031214
\$1.00 - \$2.50	MPRII	Glare/Anti-glare	17	Round	11/26/2003	1/1/2004	CHU00031214
\$0.50	TCO	MPRII	17	Flat	11/26/2003	1/1/2004	CHU00031214
\$1.00	57KHz	48KHz	15	Round	11/26/2003	1/1/2004	CHU00031214
\$9.00	ITC	Bare	25	Flat	11/28/2003	10/1/2003	MTPD-0580726
\$9.00	ITC	Bare	29	Flat	11/28/2003	10/1/2003	MTPD-0580726
\$5.00	ITC	Bare	21	Flat	11/28/2003	7/1/2003	MTPD-0580726
\$9.00	ITC	Bare	29	Flat	11/28/2003	7/1/2003	MTPD-0580726
\$9.00	ITC	Bare	25	Flat	11/28/2003	7/1/2003	MTPD-0580726
\$5.00	ITC	Bare	21	Flat	11/28/2003	10/1/2003	MTPD-0580726
\$6.04	LPD	Samsung	32	Flat	12/4/2003	1/1/2004	SDCRT-0088661
\$6.04	External Customers	Internal Customers	32	Flat	12/4/2003	1/1/2004	SDCRT-0088661
\$1.00	TCO	MPRII	19	Flat	3/25/2004	4/1/2004	CHU00031240
\$0.50 - \$1.00	MPRII	Glare/Anti-glare	17	Flat	3/25/2004	4/1/2004	CHU00031240
\$0.50 - \$1.00	MPRII	Glare/Anti-glare	17	Round	3/25/2004	4/1/2004	CHU00031240
\$0.50	ITC	Non ITC	17	Round	3/25/2004	4/1/2004	CHU00031240
\$1.50	ITC	Non ITC	15	Round	3/25/2004	4/1/2004	CHU00031240
\$1.50	ITC	Non ITC	19	Flat	3/25/2004	4/1/2004	CHU00031240
\$0.50 - \$1.00	MPRII	Glare/Anti-glare	15	Round	3/25/2004	4/1/2004	CHU00031240
\$1.00	ITC	Non ITC	19	Round	3/25/2004	4/1/2004	CHU00031240
\$1.00	TCO	MPRII	15	Round	3/25/2004	4/1/2004	CHU00031240
\$0.50	TCO	MPRII	19	Round	3/25/2004	4/1/2004	CHU00031240
\$0.50	TCO	MPRII	17	Flat	3/25/2004	4/1/2004	CHU00031240

Price Differential	High Price Condition	Low Price Condition	Size	Base Model Shape	Meeting Date	Effective Date	Bates Number
\$1.00	57KHZ	48KHZ	19	Round	3/25/2004	4/1/2004	CHU00031240
\$1.50	95KHZ	85KHZ	19	Flat	3/25/2004	4/1/2004	CHU00031240
\$1.00	ITC	Non ITC	17	Flat	3/25/2004	4/1/2004	CHU00031240
\$0.50	Other Customers	AOC	15	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	ITC	Non ITC	15	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	Lite-on	19	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	Lite-on	17	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	Lite-on	15	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	TCO	MPRII	17	Round	4/26/2004	4/1/2004	CHU00660681
\$1.00	ITC	Non ITC	17	Round	4/26/2004	4/1/2004	CHU00660681
\$1.00	57KHZ	48KHZ	15	Round	4/26/2004	4/1/2004	CHU00660681
\$1.00	TCO	MPRII	19	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	LPD	15	Round	4/26/2004	4/1/2004	CHU00660681
\$1.50	ITC	Non ITC	19	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	LPD	19	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	SEC	19	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	SEC	17	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	AOC	17	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	EMC	15	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	SEC	15	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	EMC	17	Round	4/26/2004	4/1/2004	CHU00660681
\$1.50	95KHZ	85KHZ	19	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	LPD	17	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	EMC	19	Round	4/26/2004	4/1/2004	CHU00660681
\$0.50	Other Customers	AOC	19	Round	4/26/2004	4/1/2004	CHU00660681
\$6.50	B+D	Bare	17	Round	9/3/2004	10/1/2004	CHU00660728
\$7.00	B+D	Bare	17	Flat	9/3/2004	10/1/2004	CHU00660728
\$6.00	B+D	Bare	15	Round	9/3/2004	10/1/2004	CHU00660728
\$1.50	Invar Mask	AK Mask	21	Flat	9/13/2004	10/1/2004	MTPD-0483335
\$6.50	B+D	Bare	17	Flat	9/20/2004	10/1/2005	CHU00732831
\$6.50	B+D	Bare	17	Round	9/20/2004	10/1/2005	CHU00732831
\$5.50	B+D	Bare	15	Round	9/20/2004	10/1/2005	CHU00732831
\$4.00	ITC	Bare	20	Round	12/28/2004	1/1/2005	SDCRT-0090210
\$4.00	ITC	Bare	21	Round	12/28/2004	1/1/2005	SDCRT-0090210
\$2.50	ITC	Bare	14	Round	12/28/2004	1/1/2005	SDCRT-0090210
\$5.00	ITC	Bare	21	Flat	12/28/2004	1/1/2005	SDCRT-0090210
\$3.50	ITC	Bare	21	Round	6/9/2005	4/1/2005	SDCRT-0091374
\$4.50	ITC	Bare	21	Flat	6/9/2005	4/1/2005	SDCRT-0091374
\$2.30	ITC	Bare	14	Round	6/9/2005	4/1/2005	SDCRT-0091374

Price Differential	High Price Condition	Low Price Condition	Size	Base Model Shape	Meeting Date	Effective Date	Bates Number
\$3.50	ITC	Bare	21	Round	6/9/2005	7/1/2005	CHU00029971
\$2.30	ITC	Bare	14	Round	6/9/2005	7/1/2005	CHU00029971
\$3.00	ITC	Bare	20	Round	6/9/2005	4/1/2005	SDCRT-0091374
\$3.00	ITC	Bare	20	Round	6/9/2005	7/1/2005	CHU00029971
\$4.50	ITC	Bare	21	Flat	6/9/2005	7/1/2005	CHU00029971
\$3.00	Invar Mask	AK Mask	29	Flat	6/30/2005	7/1/2005	MTPD-0517933
\$3.00	ITC	Bare	20	Round	9/22/2005	10/1/2005	CHU00548418
\$3.50	ITC	Bare	21	Round	9/22/2005	10/1/2005	CHU00548418
\$4.00	ITC	Bare	21	Flat	9/22/2005	10/1/2005	CHU00548418
\$2.30	ITC	Bare	14	Round	9/22/2005	10/1/2005	CHU00548418
\$4.00	ITC	Bare	21	Flat	10/21/2005	1/1/2006	MTPD-0343949
\$2.30	ITC	Bare	14	Round	12/6/2005	1/1/2006	SDCRT-0091400
\$3.50	ITC	Bare	21	Round	12/6/2005	1/1/2006	SDCRT-0091400
\$3.00	ITC	Bare	20	Round	12/6/2005	1/1/2006	SDCRT-0091400
\$4.00	ITC	Bare	21	Round	12/6/2005	1/1/2006	SDCRT-0091400
\$1.00	Invar Mask	AK Mask	15	Flat	12/12/2005	1/1/2006	MTPD-0580821
\$4.00	ITC	Bare	21	Flat	3/9/2006	4/1/2006	CHU00124103
\$3.50	ITC	Bare	21	Round	3/9/2006	4/1/2006	CHU00124103
\$2.30	ITC	Bare	14	Round	3/9/2006	4/1/2006	CHU00124103
\$3.00	ITC	Bare	20	Round	3/9/2006	4/1/2006	CHU00124103

Note(s):

The Meeting Date is the date that the cartel set the price differential or reviewed a previously-set price differential. The Effective Date is the date that the cartel planned to implement the price differential. Bare, ITC, N-ITC (Non-ITC), and B+D are related to deflection yokes. B+D and N-ITC both refer to situations where the deflection yoke is shipped with the CRT but not pinned to it.

ASC means "Anti-Static & Silica Coating".

MPRII and TCO are safety standards for monitors.

Short Length, Normal Length, Standard Neck, and Mini-neck are related to CRT neck length.

Invar mask and AK mask are different mask types.

.25mm, .26mm, .27mm, and .28mm are dot pitches (related to resolution).

48kHz, 57kHz, 85kHz, 95kHz, Lower Frequency, and Higher Frequency are related to the horizontal scanning frequencies of monitors (the rate at which the electron gun scans rows on the display).

Coils are components of electron guns.

Arrival and CIF are terms of shipment.

Source File(s):

Target price-structure.xlsx

CDT Hedonic Regression Results

Dependant variable is Ln(Actual Price)

Variable	Coefficient	Standard Error	P-Value (two-sided)
Time trend	-0.043	0.001	0.000
Time trend squared	0.000	0.000	0.000
12-inch tube	-0.758	0.037	0.000
14-inch tube	-1.092	0.020	0.000
15-inch tube	-0.822	0.020	0.000
16-inch tube	-0.701	0.030	0.000
17-inch tube	-0.465	0.020	0.000
19-inch tube	-0.078	0.020	0.000
20-inch tube	-0.059	0.029	0.039
21-inch tube	0.553	0.021	0.000
24-inch tube	-0.016	0.036	0.660
ITC	0.176	0.011	0.000
Knock-down	0.062	0.011	0.000
Constant	5.870	0.029	0.000
Controlling for buyer-seller pairs	Yes		
Number of observations	33,168		
R-squared	0.91		

Note(s):

Dependant variable is log(price). Coefficients for buyer-seller pairs are omitted.

Data Source(s):

Defendant data; see Exhibit 64.

Source File(s):

defendant_data_hedonics_merits.do

all_defendants_price.do

hedonics_results.xlsx

CPT Hedonic Regression Results

Dependant variable is Ln(Actual Price)

Variable	Coefficient	Standard Error	P-Value (two-sided)
Time trend	0.000	0.001	0.428
Time trend squared	0.000	0.000	0.000
11-inch tube	-0.217	0.034	0.000
14-inch tube	-0.548	0.007	0.000
15-inch tube	-0.188	0.008	0.000
16-inch tube	-0.072	0.011	0.000
17-inch tube	-0.007	0.010	0.503
19-inch tube	0.128	0.023	0.000
20-inch tube	-0.058	0.007	0.000
21-inch tube	0.090	0.007	0.000
24-inch tube	0.243	0.025	0.000
25-inch tube	0.582	0.007	0.000
26-inch tube	0.563	0.009	0.000
27-inch tube	0.816	0.018	0.000
28-inch tube	0.611	0.013	0.000
29-inch tube	0.876	0.007	0.000
32-inch tube	1.299	0.014	0.000
33-inch tube	1.784	0.016	0.000
34-inch tube	1.557	0.008	0.000
36-inch tube	1.824	0.015	0.000
38-inch tube	1.982	0.012	0.000
ITC	0.079	0.003	0.000
Knock-down	0.010	0.006	0.070
Widescreen	0.305	0.012	0.000
Constant	4.125	0.019	0.000

Controlling for buyer-seller pairs Yes
 Number of observations 62,026
 R-squared 0.97

Note(s):

Dependant variable is log(price). Coefficients for buyer-seller pairs are omitted.

Data Source(s):

Defendant data; see Exhibit 64.

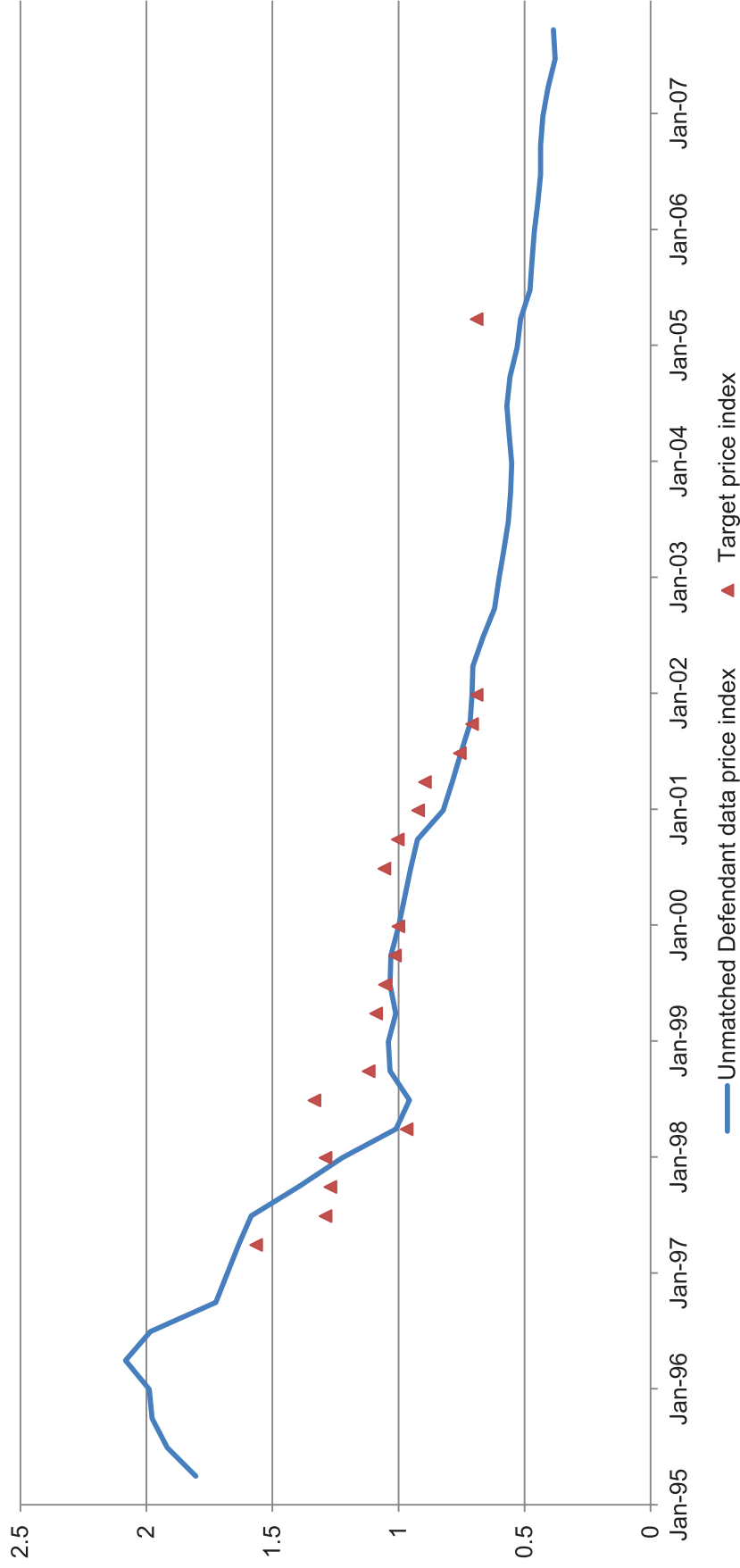
Source File(s):

defendant_data_hedonics_merits.do

all_defendants_price.do

hedonics_results.xlsx

CDT Price Indices Target Prices vs. Unmatched Defendant Data Prices



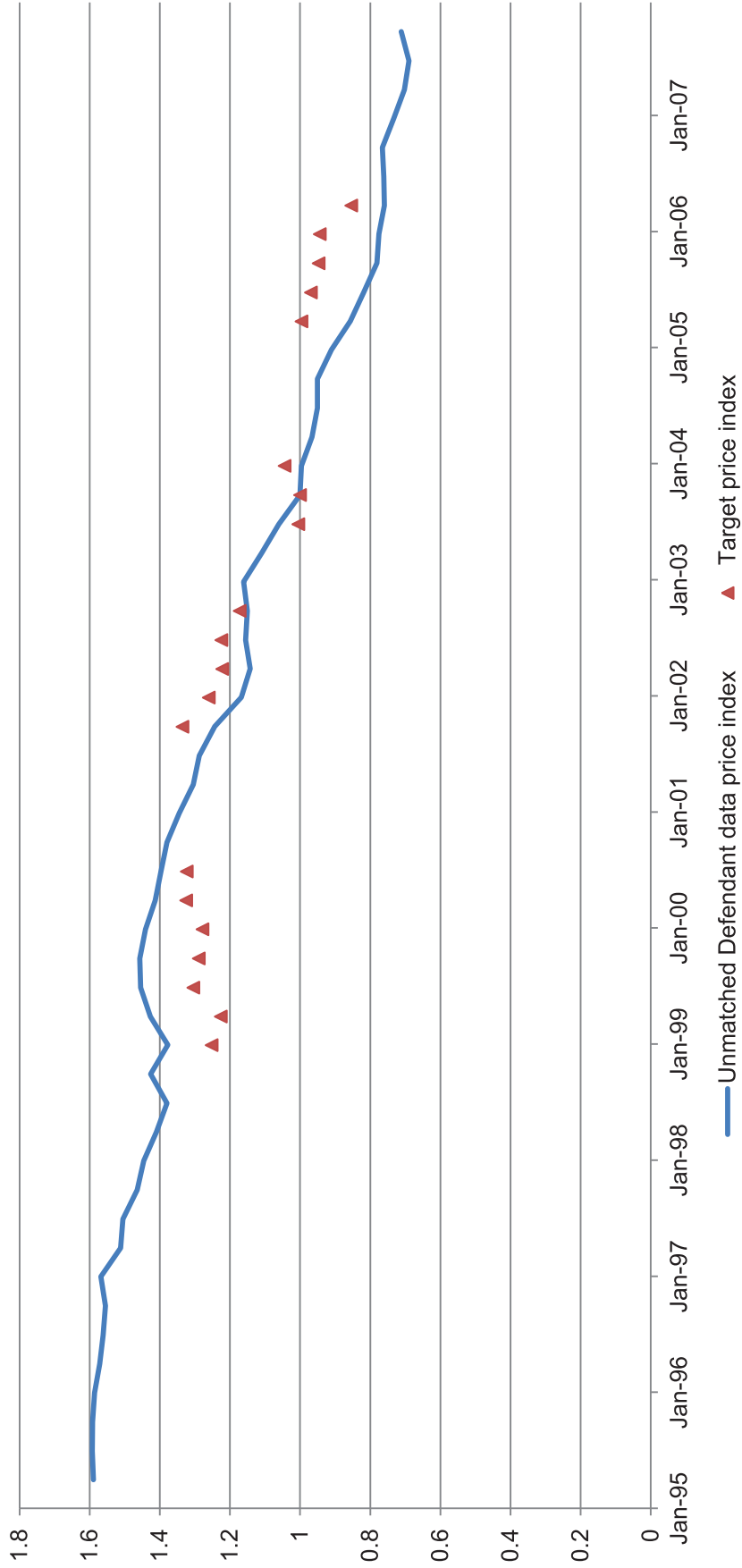
Note(s): Prices are quantity-weighted averages from Defendant data. Base period for both indices is 2000Q1.

Data source(s): Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source file(s): Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; actual_price_index.do; target_regression_exhibits.xlsx

CPT Price Indices
Target Prices vs. Unmatched Defendant Data Prices



Note(s): Prices are quantity-weighted averages from Defendant data. Base period for both indices is 2002Q1.

Data source(s): Defendant data; see Exhibit 64.

Source file(s): Cartel meeting notes; see Target price-structure.xlsx.
 Target price-structure.xlsx; vendor_map.xlsx; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; actual_price_index.do;
 target_regression_exhibits.xlsx

Target Price Index Regression Results - CDTs

Regression of Actual Prices on Target Price Index

By Customer, Manufacturer, Size, and Finish

Dependant variable is Ln(Actual Price)

Variable	Coefficient	Standard Error	P-Value (two-sided)
Ln(Previous Quarter's price)	0.504	0.031	0.000
Ln(Target Price Index)	0.298	0.019	0.000
Ln(Price of Glass) × Size	0.026	0.003	0.000
Ln(Industrial Production)	0.746	0.146	0.000
Unemployment Rate	0.085	0.015	0.000
Constant	-3.686	0.803	0.000

Fixed Effects by customer, manufacturer, size, and finish

Number of observations 5,955

R-squared 0.82

Data Source(s): Organisation for Economic Co-operation and Development, 03 January 2014, Production and Sales (MEI): Production, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=90#>, accessed 03 January 2014.

Organisation for Economic Co-operation and Development, 03 January 2014, Key Short-Term Economic Indicators: Harmonised Unemployment Rate, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=21760>, accessed 03 January 2014.

Bank of Korea, Undated, Glass for CRT Use.

Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

Source File(s): Target price-structure.xlsx; vendor_map.xlsx; vendor_map.do; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; target_price_regressions.do; target_regression_exhibits.do; target_regression_exhibits.xlsx

Target Price Index Regression Results - CPTs

Regression of Actual Prices on Target Price Index

By Customer, Manufacturer, Size, and Finish

Dependant variable is Ln(Actual Price)

Variable	Coefficient	Standard Error	P-Value (two-sided)
Ln(Previous Quarter's price)	0.490	0.037	0.000
Ln(Target Price Index)	0.196	0.028	0.000
Ln(Price of Glass) × Size	0.014	0.001	0.000
Ln(Industrial Production)	-0.008	0.083	0.924
Unemployment Rate	0.016	0.007	0.033
Constant	0.553	0.513	0.281

Fixed Effects by customer, manufacturer, size, and finish

Number of observations 12,605

R-squared 0.94

Data Source(s): Organisation for Economic Co-operation and Development, 03 January 2014, Production and Sales (MEI): Production, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=90#>, accessed 03 January 2014.

Organisation for Economic Co-operation and Development, 03 January 2014, Key Short-Term Economic Indicators: Harmonised Unemployment Rate, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=21760>, accessed 03 January 2014.

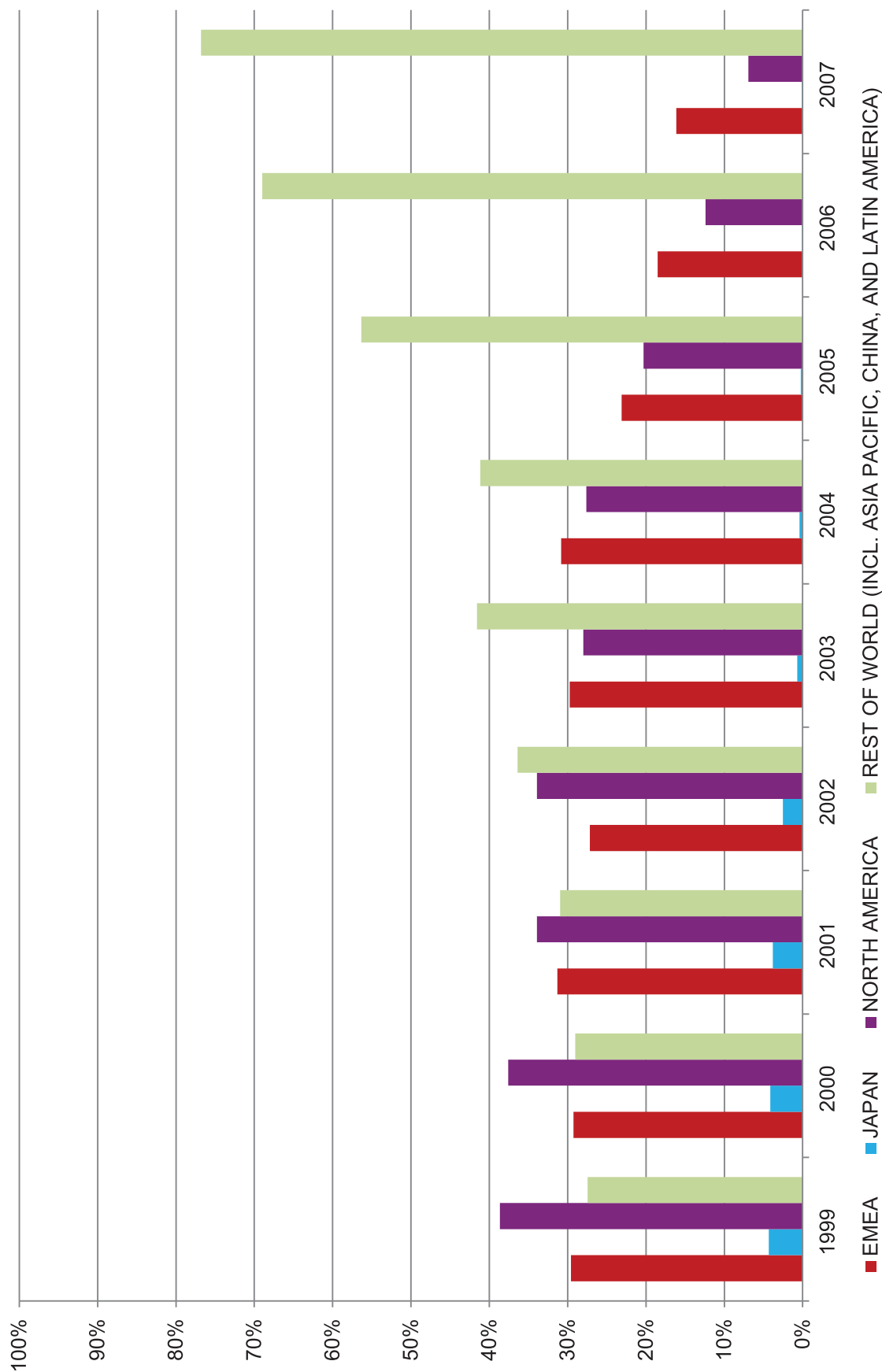
Bank of Korea, Undated, Glass for CRT Use.

Defendant data; see Exhibit 64.

Cartel meeting notes; see Target price-structure.xlsx.

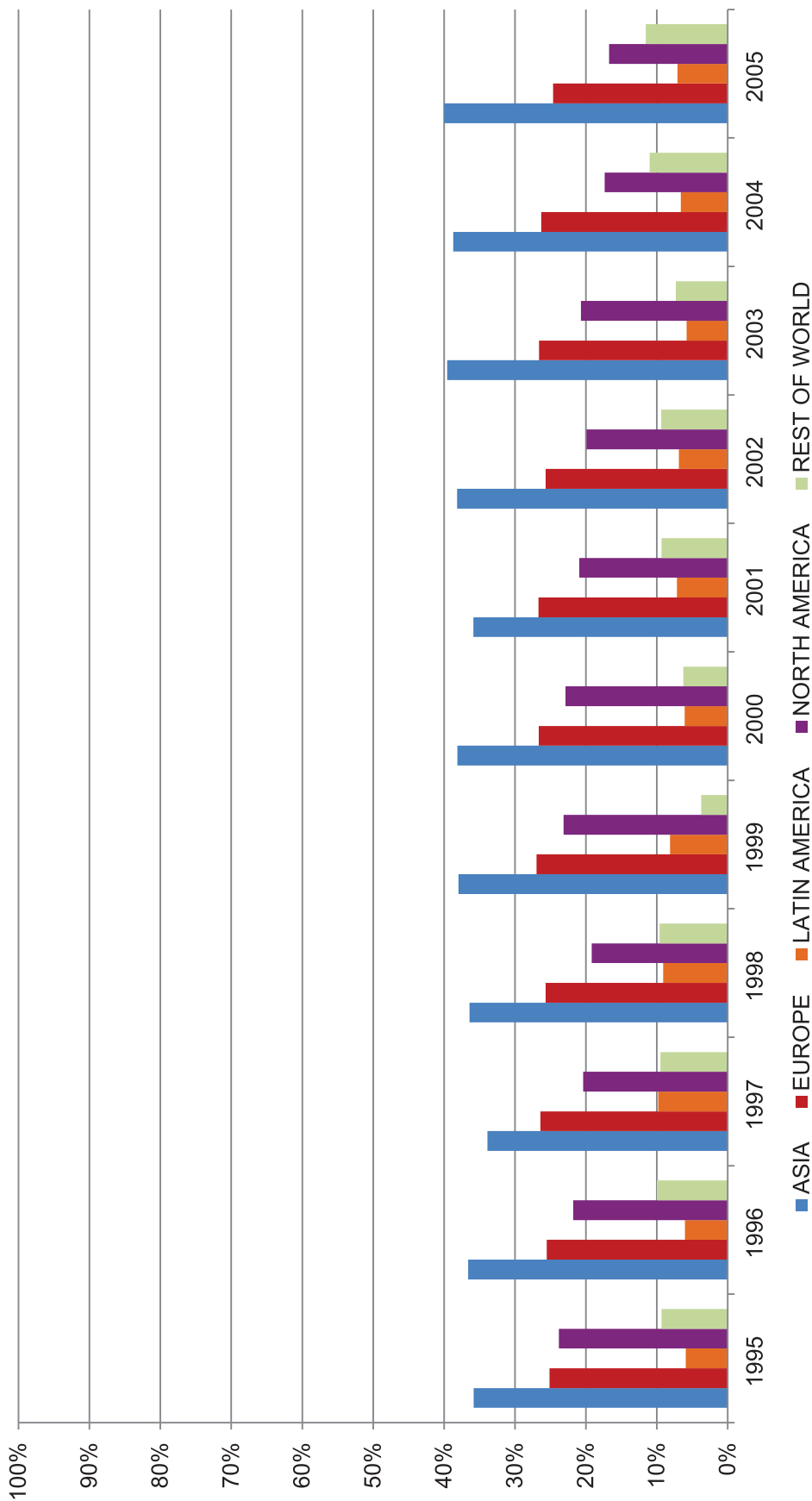
Source File(s): Target price-structure.xlsx; vendor_map.xlsx; vendor_map.do; PriceTracker.do; clean_target.do; clean_defendant.do; target_price_index.do; combine_target_defendant.do; target_price_regressions.do; target_regression_exhibits.do; target_regression_exhibits.xlsx

Regional Shares of Worldwide CRT Monitor Consumption



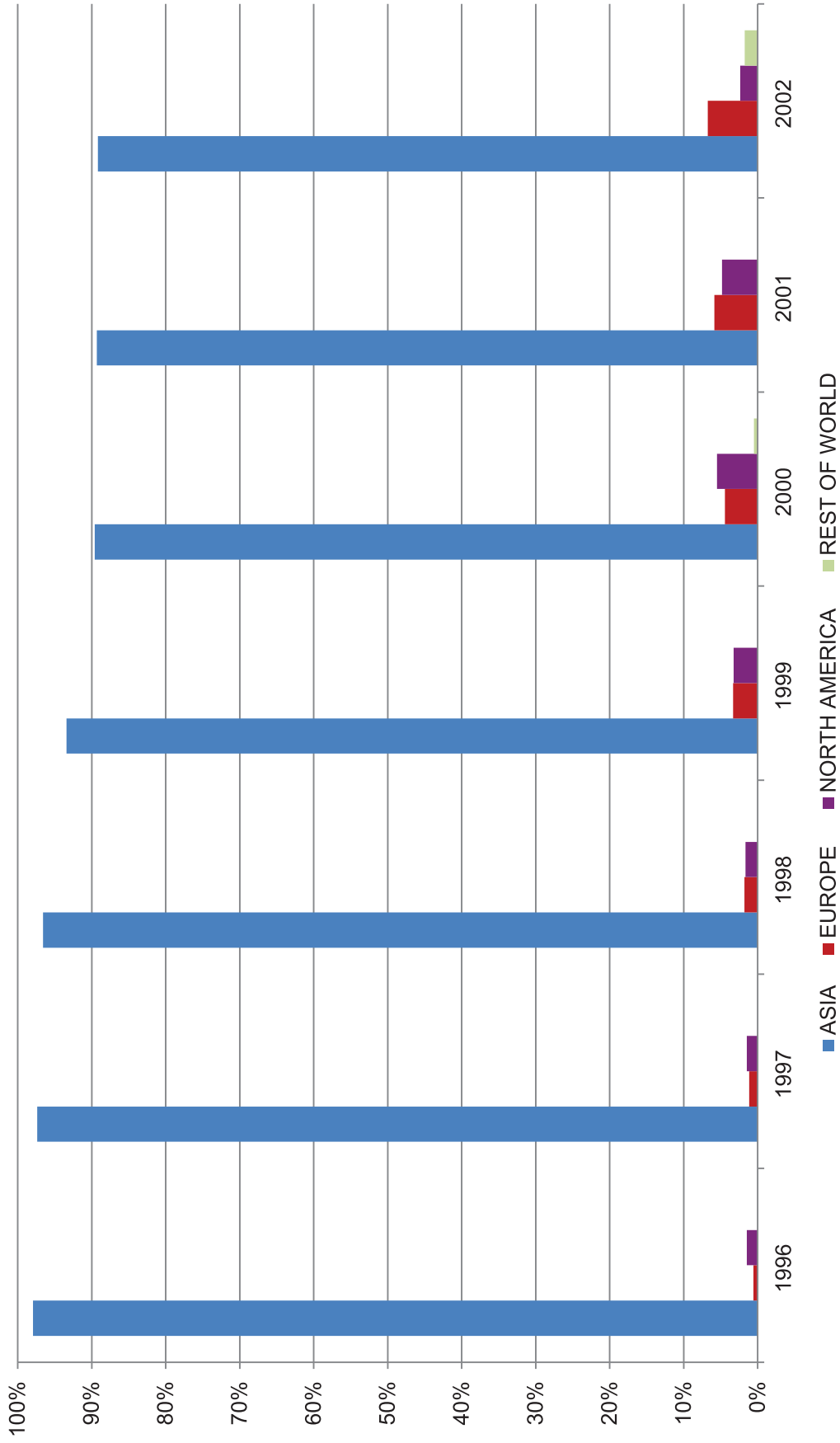
Data Source(s): DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000128.
 Source File(s): regional production and consumption shares.xlsx

Regional Shares of Worldwide CRT TV Consumption



Data Source(s): Hitachi Displays, June 1999, HDP-CRT00050989.
 Hitachi Displays, 21 March 2000, HDP-CRT00022892.
 Hitachi Displays, 11 April 2001, HDP-CRT00022920.
 Hitachi Displays, April 2003, HDP-CRT00019300.
 MT Picture Display, 23 August 2004, MTPD-0576016.
 MT Picture Display, November 2005, MTPD-0432713.
 Source File(s): regional production and consumption shares.xlsx

Regional Shares of Worldwide CDT Production



Note(s): South America is included in Rest of World.

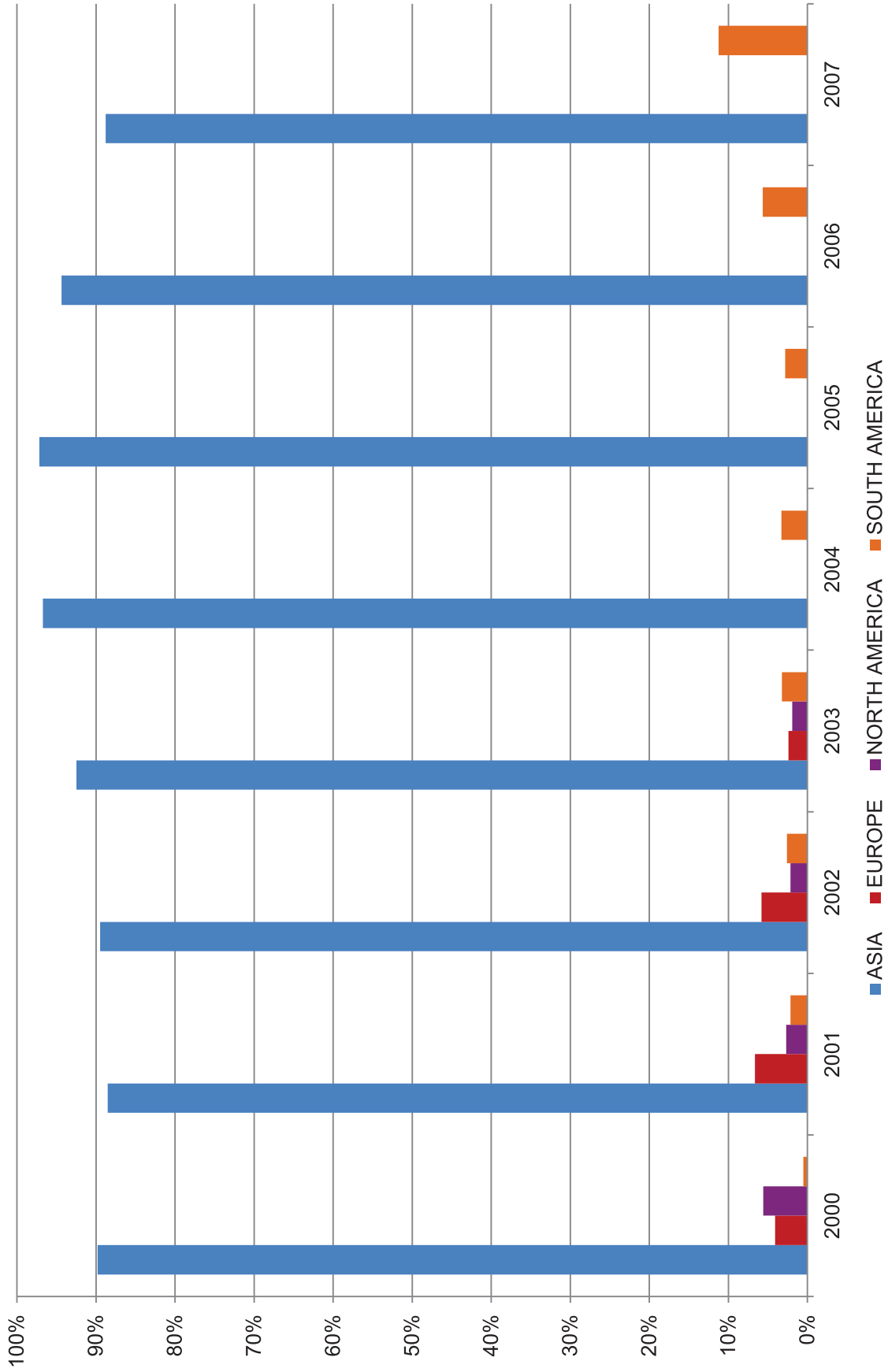
Data Source(s): Samsung, 11 December 2003, Worldwide CDT Manufacturer's Status, SDCRT-0201291.

Hitachi Displays, 09 May 2001, HDP-CRT00023725.

MT Picture Display, June 2003, MTPD-0423918.

Source File(s): regional production and consumption shares.xlsx

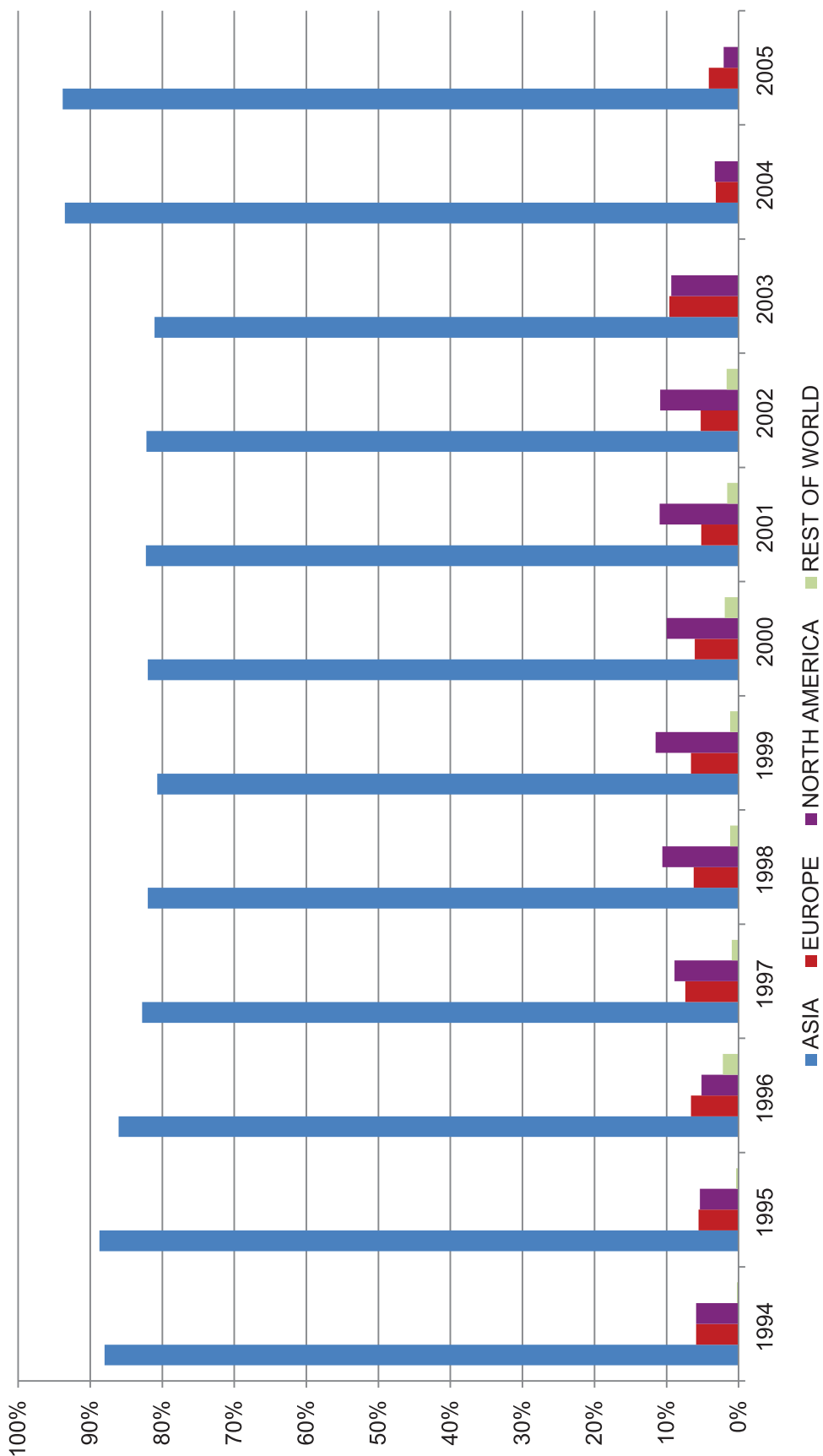
Regional Shares of Worldwide CDT Capacity



Date Source(s): See Exhibit 2.

Source File(s): Capacity Worksheets.xlsx; cdt regional shares.do; early_capacity_load.do; capacity_database.do; database edits.do; regional capacity shares.xlsx

Regional Shares of Worldwide CRT Monitor Production



Note(s): South America is included in "Rest of World".

Data Source(s) Hitachi Displays, June 1999, HDP-CRT00050989.

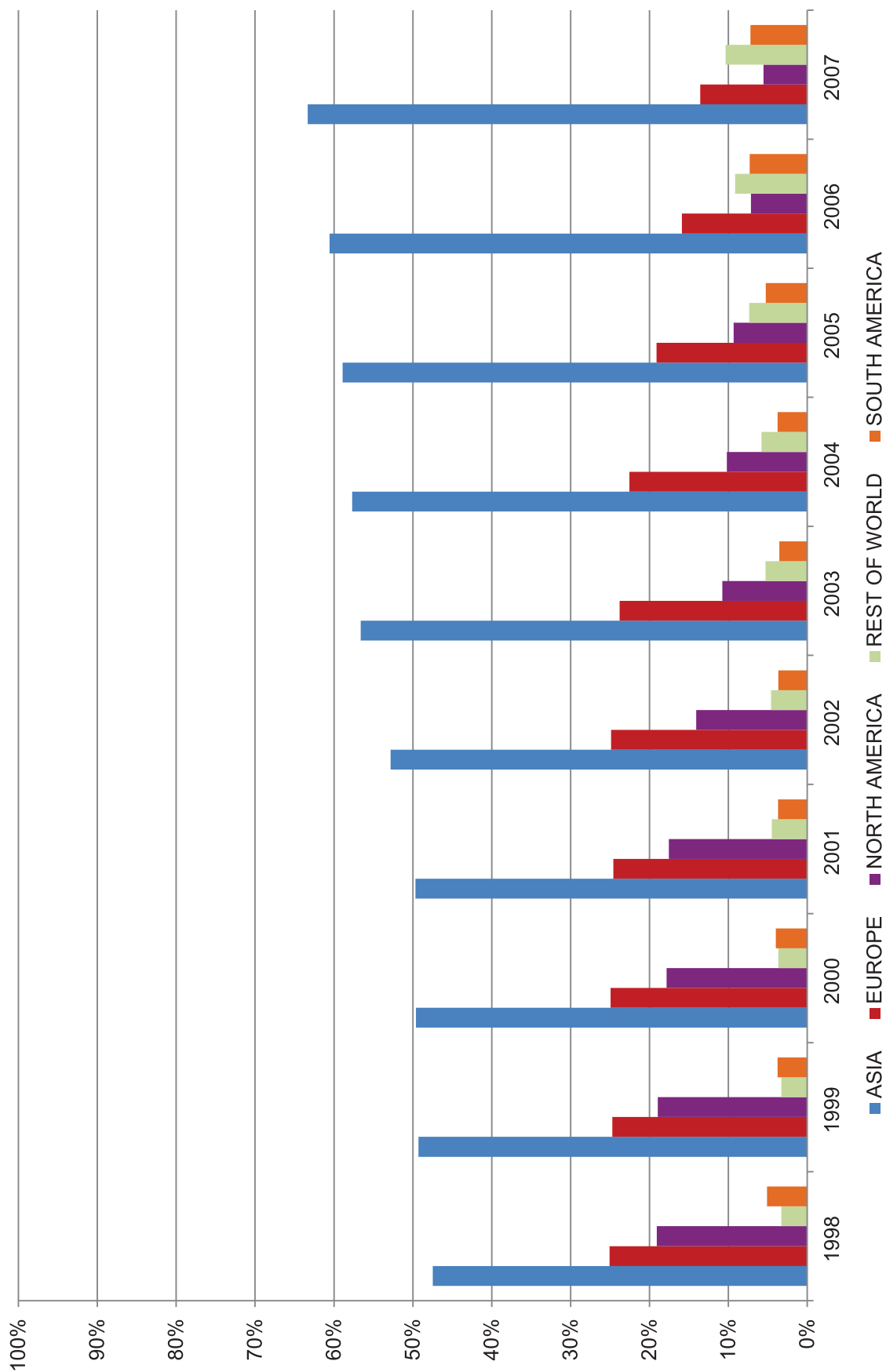
Toshiba Electronics Taiwan, 24 April 2001, CDT & Monitor Demand Supply Analysis, TET-CRT-00003403.

MT Picture Display, June 2003, MTPD-0423918.

iSuppli, 2006, Monitor Revenues Dip on Falling LCD Prices, Seasonal Sluggishness - Worldwide Monitor Market Tracker, LGE00069046.

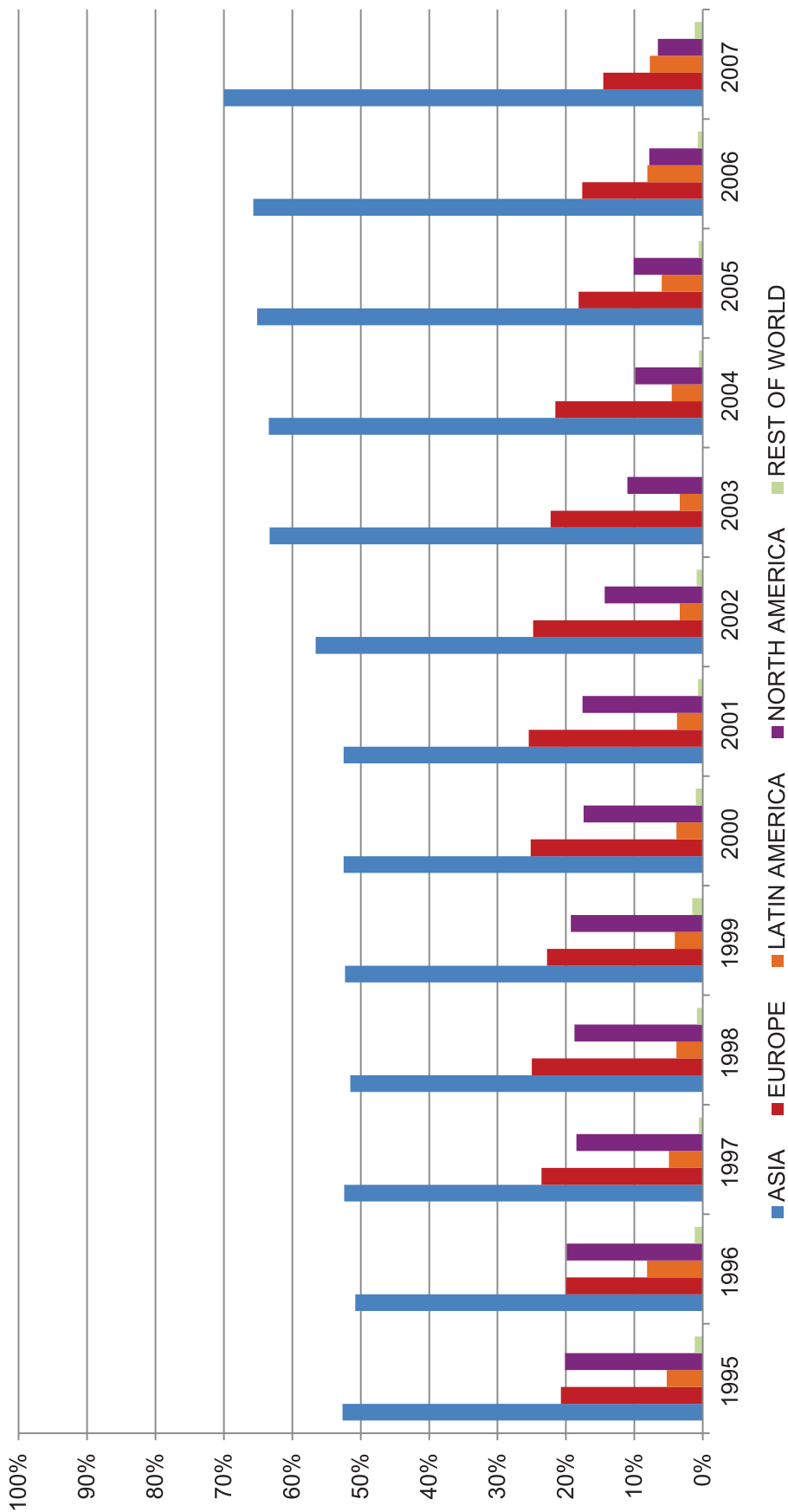
Source File(s): regional production and consumption shares.xlsx

Regional Shares of Worldwide CPT Production



Data Source(s): Samsung SDI, 27 February 2007, SDCRT-0203542.
 Source File(s): regional production and consumption shares.xlsx

Regional Shares of Worldwide CRT TV Production



Data Source(s): Hitachi Displays, June 1999, HDP-CRT00050989.

Hitachi Displays, 21 March 2000, HDP-CRT00022892.

Hitachi Displays, 11 April 2001, HDP-CRT00022920.

Hitachi Displays, April 2003, HDP-CRT00019300.

MT Picture Display, 23 August 2004, MTPD-0576016.

Samsung SDI, 27 February 2007, SDCRT-0203542.

MT Picture Display, 13 July 2007, MTPD-0473547.

Source File(s): regional production and consumption shares.xlsx

Intense Competition Leads to Low Profit Rates

Trade press and financial analysts

"The PC industry in general, and the notebook industry in particular, is not highly profitable." Foster, William, Cheng, Zhang, Dedrick, Jason, and Kenneth L. Kraemer, 2006, Technology and Organizational Factors in the Notebook Industry Supply Chain, Personal Computing Industry Center Paper 382, at 14.

"Today, the PC business is showing all the signs of a brutal price war: rapid price cuts, rebates and lots of freebies. Dell Computer Corp., which launched the current price battle at the end of last year, now is tossing in free delivery, a free printer and free Internet access to customers who buy a PC through its Web site. That's a good thing for customers. But computer makers are reeling as the stiffening competition slices into profits". McWilliams, Gary, 26 March 2001, Price War Squeezes PC Makers --- Cuts Make Companies Bleed As Profits, Sales Decline; Some Predict a Shakeout, Wall Street Journal, Eastern Edition, at B.1.

"That markup of nearly 50% of the total cost is a 'healthy profit margin' for Amazon, said Van Baker, a Gartner Inc. analyst, adding that most consumer products have markups of 20% to 25% of total cost. 'A markup of 50% of total cost is almost impossible to do in consumer electronics just because the market is so competitive'." Hamblen, Matt, 22 April 2009, Material costs for Kindle 2 are about half its retail price, ComputerWorld, http://www.computerworld.com/s/article/9131974/Materials_costs_for_Kindle_2_are_about_half_its_retail_price_, accessed 14 September 2012, at 1.

"Indeed, even as consumers inexorably move toward buying ever-larger screens and retailers' revenues climb, competition is forcing price cuts. And as the low-price, high-volume mass merchants like Wal-Mart or Costco become major vendors of big-screen HDTVs, all retailers are forced to keep their prices - and their profit margins - as low as possible". Taub, Eric A., 25 August 2007, If There's A High-Definition TV in Your Future, Wait Till After the Holidays, The New York Times, <http://www.nytimes.com/2007/08/25/business/yourmoney/25TELE.html?pagewanted=all>, accessed 14 September 2012, at 2.

Industry participants

A slide from Toshiba Asia presentation states: "Market trend ... Forecast fm Y2002 [bullet] All CTV maker [sic] have been getting tired of no-profit discount competition". Toshiba, 05 July 2001, CPT World Wide Technical Engineering Meeting, TET-CRT-00002966 - TET-CRT-00002988, at 2971.

Samsung testified: "The dealers and distributors that we are doing business with today have evolved to be able to support -- sell and support higher-technology TVs and they have refined their operations to a point where they can work on lower margins, very much like we do. It is a very, very competitive business and there is a continuous squeeze on margins due to the competitiveness." 17 July 2012, Deposition of Samsung Electronic America and Samsung Electronic Corporation 30(b)(6) Witness Steve Panosian, at 150:16-25.

"CPT [Chunghwa] President Lin indicated that raising the price on 15" not only benefits 15" CDT makers, but also gives Monitor makers the opportunity to adjust the price to create some profit margin for their no-profit-base business..." Chunghwa Picture Tubes, LTD, 23 June 1999, Business Meeting Report, CHU00030787 - CHU00030794, at 0791.01E.

"As a result of intense price competition in the IT products and services distribution industry, our [Ingram Micro's] gross margins have historically been narrow and we expect them to continue to be narrow in the future." Ingram Micro, 26 January 2008, Ingram Micro Form 10-K 2007, <http://www.sec.gov/Archives/edgar/data/1018003/000095013708002845/a38343e10vk.htm>, accessed 19 May 2008, at 11.

"As a result of significant price competition in the IT [Information Technology] products and services industry, our [SYNNEX's] gross margins are low, and we expect them to continue to be low in the future." SYNNEX, 01 February 2008, SYNNEX Corporation Form 10-K 2007, <http://www.sec.gov/Archives/edgar/data/1177394/000119312508029448/d10k.htm>, accessed 19 May 2008, at 9.

Toshiba testified: "Q. Would you -- is it fair to say that the television business that TACP [Toshiba America Consumer Products] was in was a competitive business? A. Yes. [...] BY MR. LEBSOCK: Q. Okay. And specifically with respect to the CRT television business, was that a competitive business? [...] THE WITNESS: All television is competitive business. It's all very -- the margins are all very low to nonexistent." 01 August 2012, Deposition of Toshiba America Consumer Products and Toshiba America Information Systems 30(b)(6) Witness Richard Eugene Huber, at 76:16 - 77:9.

High Degree of Competition in the Production of CRT Products

Trade press & financial analysts

"Noel Leeming Group merchandise general manager Jason Bell says consumer electronics is 'one of the most competitive retail industries there is.'" Mace, William, 26 July 2010, Television prices plummet at a store near you, <http://www.stuff.co.nz/technology/digital-living/3956050/Television-prices-plummet-at-a-store-near-you>, accessed 27 July 2010, at 1.

"DELL INC. slashed its personal-computer prices across the board, taking aim at rival Hewlett-Packard Co. and signaling a brutal new phase of competition in an industry that has just begun to pick itself off the floor." McWilliams, Gary and Tam Pui-Wing, 21 August 2003, Dell Price Cuts Put a Squeeze On Rival H-P, Wall Street Journal, Eastern Edition, at B.1.

"Such is the new pricing order in the hypercompetitive world of PCs." Sager, Ira, 16 November 1998, Dream Days For Desktops, BusinessWeek, <http://www.businessweek.com/1998/46/b3604022.htm>, accessed 11 April 2008, at 1.

From UBS Investment Research: "We believe the pricing trends and sales in this holiday season will be indicative of the level of retail competition and, more importantly, consumer receptiveness to flat TVs going into 2005." UBS Investment Research, 15 December 2004, Flat TV Price Tracker #2, Global Equity Research, CHWA00032115 - CHWA00032128, at 2116.

"Today, competition in TV industry not only becomes more drastic than before but also affects the relationship between different roles in TV value chain." Hongquan, Xu, 2003, Strategy Analysis Report in China TV Market for Philips, Theseus International Management Institute, PHLP-CRT-039598 - PHLP-CRT-039648, at 9600.

CRT product makers, distributors, and retailers

"Home PC sales in the U.S. serving as the warning canary for the industry, fell 24% in February, the third straight month of such declines. What's more, the drop-off also is being seen in small-business and corporate PC purchases. 'I don't see much difference across these categories right now,' says Webb McKinney, the head of Hewlett-Packard Co.'s new Business Customer Organization. 'It's very, very competitive.'" McWilliams, Gary, 26 March 2001, Price War Squeezes PC Makers --- Cuts Make Companies Bleed As Profits, Sales Decline; Some Predict a Shakeout, Wall Street Journal, Eastern Edition, at B.1.

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"Indeed, even as consumers inexorably move toward buying ever-larger screens and retailers' revenues climb, competition is forcing price cuts. And as the low-price, high-volume mass merchants like Wal-Mart or Costco become major vendors of big-screen HDTVs, all retailers are forced to keep their prices - and their profit margins - as low as possible." Eric A. Taub, 25 August 2007, If There's A High-Definition TV in Your Future, Wait Till After the Holidays, The New York Times, <http://www.nytimes.com/2007/08/25/business/yourmoney/25TELE.html?pagewanted=all>, accessed 14 September 2012, at 2.

"The greatest influence in the supply chain still remains with the mass retailers. Their purchasing power and ability to reach millions of consumers exert enormous pressure on manufacturers. Competition among these retail titans has forced lower prices." 3M Precision Optics, Inc., March 2002, Projection Television Past & Future 2003 Global Consumer Market, MTPD-0202647 - MTPD-0202669, at 2658.

"Albin F. Moschner, Zenith's president and chief executive, said the dismal second quarter resulted from brutal price competition as unit sales of color televisions fell 2.3 percent in the first half of the year, instead of rising by about that amount as the industry had projected." Feder, Barnaby J., 18 July 1995, Last U.S. TV Maker Will Sell Control to Koreans, The New York Times, <http://www.nytimes.com/1995/07/18/us/last-us-tv-maker-will-sell-control-to-koreans.html?pagewanted=all&src=pm>, accessed 10 September 2012, at 2.

Panasonic testified: "Q. How competitive would be characterize was [sic] the market for you to resell your CRT TVs? A. Very. Frankly, it was ridiculously competitive as compared to almost any other industry you could be, I guess, in the world. I mean, it's a crazy business." 18 July 2012, Deposition of Panasonic North America 30(b)(6) Witness Edwin Wolff, at 60:3-7.

CRT manufacturers

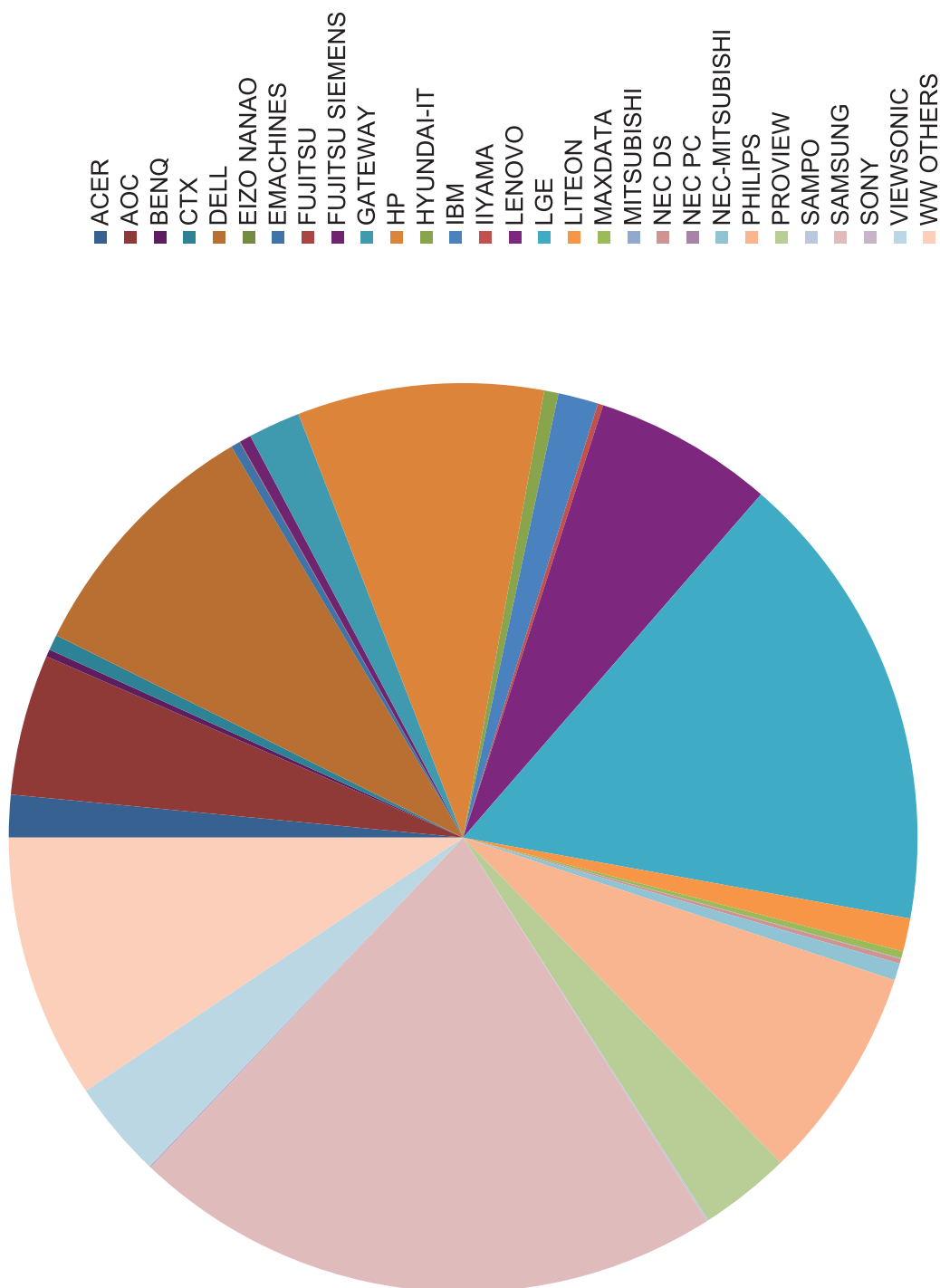
"In the future, how can the three makers show forth their sincerity, eliminate vicious price competition and jointly resist the price slashing of the PC brand makers and monitor OEM makers." Chunghwa Picture Tubes, LTD, 2002, CDT Market Analysis, CHU00660198 - CHU00660199, at 0198E.

From CDT top management meeting notes: "[A]nyway, 17" monitor market price has indeed plunged below the reasonable price level of \$160 as a result of competition among monitor makers." Chunghwa Picture Tubes, LTD, 23 June 1999, Business Meeting Report, CHU00030787 - CHU00030794, at 0789.01E.

An internal Samsung e-mail regarding a meeting with retailer Best Buy states: "Competition Among Manufacturers Is Fierce & Competition Among Retailers Is Fierce." Samsung Electronics America Inc., 23 October 2006, BBY Korea Meeting Recap, SEAI-CRT-00383647 - SEAI-CRT-00383650, at 3648.

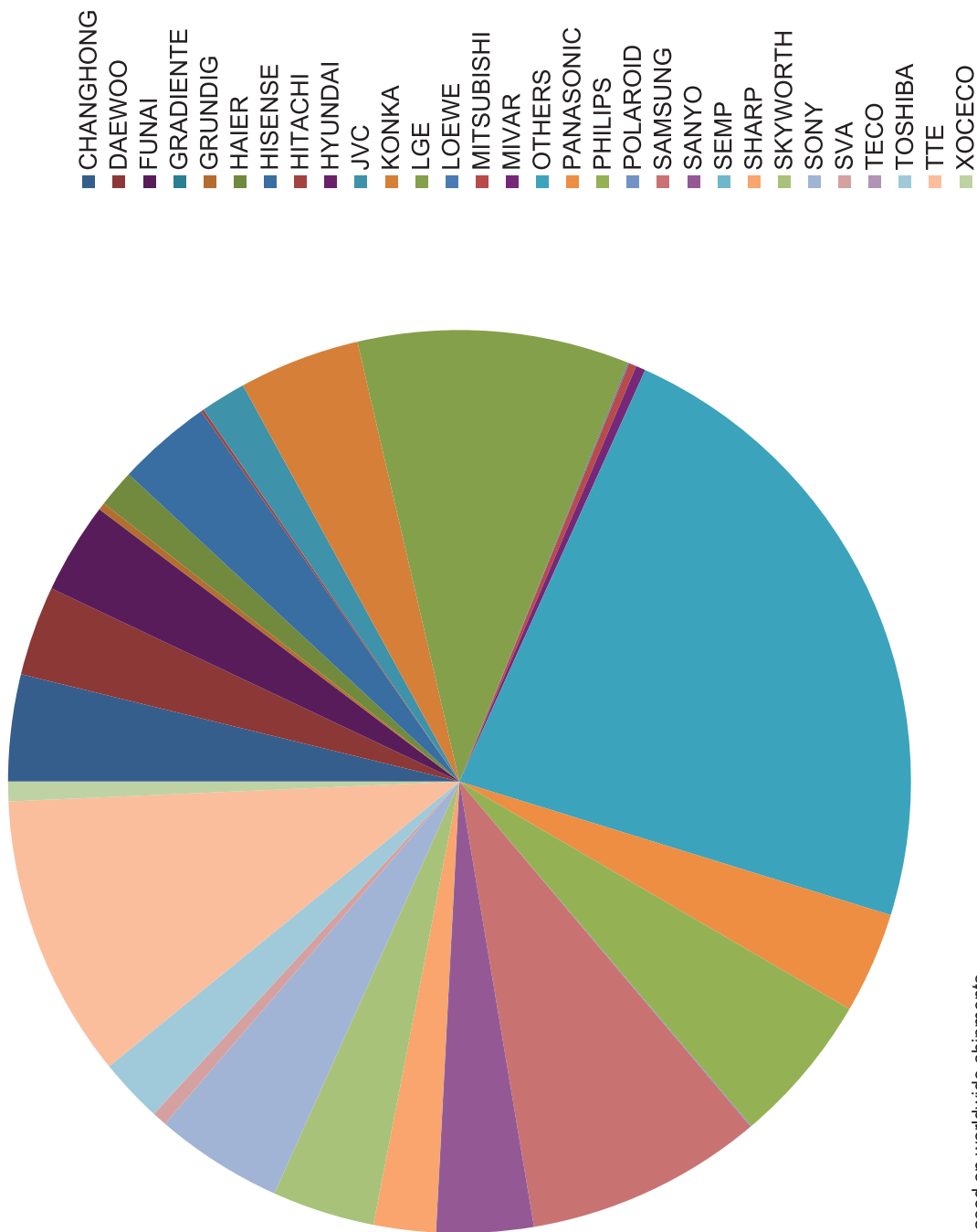
A slide from MTPD presentation states: "State of CRT/TV Industry [bullet] Fierce competition (Global)". Greg Tatusko, Undated, Clarifying Consumer TV Choices, MT Picture Display Corporation of America, MTPD-0161403, at 11.

Monitor Brand Worldwide Market Shares, 2004-2006



Note(s): Market shares based on worldwide shipments.
 Data Source(s): DisplaySearch, 2007, Quarterly Desktop Monitor Shipment and Forecast Report, CHU00154421.
 Source File(s): TV & Monitor Brand HH1.xlsx

TV Brand Worldwide Market Shares, 2005-2006



Note(s). Market shares based on worldwide shipments.
 Data Source(s): DisplaySearch, 2007, DisplaySearch Q2'07 Quarterly Global TV Shipment and Forecast Report, SEAI-CRT-00223186.

Defendants Indicate that Pass-Through Occurs

General Purchasing Agreement between Chunghwa Picture Tubes and Philips Consumer Electronics International states: "Supplier agrees to use commercially reasonable efforts to maximize efficiencies and realize cost reductions. Decreases in prices or cost savings will be passed along to Buyer." Chunghwa Picture Tubes, LTD, 01 January 2004, General Purchasing Agreement, CHU00628898 - CHU00628952, at 8903.

"CPT [Chunghwa] President Lin indicated that raising the price on 15" not only benefits 15" CDT makers, but also gives Monitor makers the opportunity to adjust the price to create some profit margin for their no-profit-base business..." Chunghwa Picture Tubes, LTD, 23 June 1999, Business Meeting Report, CHU00030787 - CHU00030794, at 0791.01E.

Notes from a meeting between Samsung, LG, Orion, Philips, and Chunghwa indicate that industry media recognized the connection between an increase in the price of CRT tubes and an increase in the price of CRT monitors: "Conclusion: Mr. David indicated that recently the newspapers and media have repeatedly published information about the expected rise of CDT and Monitor prices. It is quite helpful for our CDT and Monitor makers to raise the prices even further in the future." Chunghwa Picture Tubes, LTD, 26 January 1999, Contact Report, CHU00030701 - CHU00030704, at 0702.01E.

Notes from a meeting between Chunghwa, Samsung, LPD, and Orion state: "CDT price increase topic: CPT [Chunghwa] indicated that the \$2 price increase this time was to facilitate monitor makers' transfer of the CDT increase to customers. It will increase each size again by \$3 in April. It hopes that makers can have a common understanding and implement accordingly. Though neither SDI/LPD have objected, CPT hopes that it can progress with discussions and obtain a final decision at next month's CEO meeting." Chunghwa Picture Tubes, LTD, 22 February 2002, Visitation Report (Submit), CHU00031183 - CHU00031185, at 1184.02E.

Defendant meeting notes discuss product makers' reactions to a price increase: SDI [Samsung] reported that product maker Delta "can gradually accept increase. Delta is also actively convincing customers to accept increase. SDI will be able to successfully increase 15":\$41 [arrow] \$43, 17":\$54 [arrow] \$56, 17"RF: \$66." Chunghwa Picture Tubes, LTD, 23 January 2002, Visitation Report, Main Topic: CDT Market Information Exchange and Price/Production Review, CHU00031180 - CHU00031181, at 1180.01E.

Notes from a meeting between SDD [Samsung], LG, Orion, Philips, and Chunghwa state: "Besides, addressing the customers' queries raised by CPT [Chunghwa] as to whether the Korean market would simultaneous [sic] increase the price for 15" [Underlined by hand], SDD [Samsung Display Devices] stated that in addition to SEC [Samsung Electronics Co.] accepting, export customers such as Hyundai/Daewoo have also accepted, but it would require some time for the Monitor makers to reflect the price increase to the PC system makers." Chunghwa Picture Tubes, LTD, 10 August 1999, Visitation Report, Topic: CDT Market Information Exchange and Price Review, CHU00030831 - CHU00030834, at 0831.01E.

Notes from a meeting between Samsung, LG, Orion, Philips, and Chunghwa state: "President Lin also indicated that 15" tube price will be raised and slightly reduce 17" tube price from August with an objective to shorten the price differential between the two and encourage the migration of market demand to 17"; since the price adjustment was just made in August, the impact has yet to be felt. It is estimated that the impact of price increase will start to be felt in the market place beginning in December." Chunghwa Picture Tubes, LTD, 20 September 1999, Visitation Report (Submit), CHU00030855 - CHU00030868, at 0855.02E - 0855.03E.

Chunghwa's notes state under Price Hike: "[W]e should also inform the customers of a possible second stage of price hike, so that they can take time to pass on to OEM customers." Chunghwa Picture Tubes, LTD, 25 March 2004, Return-from-Abroad Trip Report, CHU00031240 - CHU00031247, at 1242E.

From internal Hitachi correspondence: "Tatung/Taiwan is one of 15 inch monitor supplier to Macintosh Product Operations(US market)/Apple Computer Inc. Hitachi recently proposed price increase of 15 inch CDT to Tatung/Taiwan, who has eventually transferred this price requirement to Apple." Effler, F. Skip, 21 September 1994, Apple: 15" Monitor Price Up, HEDUS-CRT00126016 - HEDUS-CRT00126021, at 6017.

Notes from a meeting between Samsung, LG, Orion, Chunghwa, and Philips state: "Mr. Jerry [from Philips] claimed that he had already expressed to PH [Philips] BU before the Lunar New Year that the price of 17" would be increased starting in April. PH BU has also conveyed the price increase information to Dell. Mr. Ha also claimed that its headquarters had conveyed the price increase information to SEC. SEC has also informed its customers that the sales price would be increased again." Chunghwa Picture Tubes, LTD, 19 March 1999, Visitation Report [Submitted], CHU00030731 - CHU00030733, at 0731.02E.

Meeting notes suggest that Samsung Electronics Co. [SEC] was expected to increase monitor prices in response to a CDT price increase: "According to Mr. Kim, the current CDT price which SDD [Samsung Display Devices] supplies to SEC, was totally in reference to the price of its major customers (such as ACER/Lite-on). Additionally, prices to customers increased again on September 1. SEC was no exception. SEC will increase sales prices to its customers (Apple, etc.) starting October 1." Chunghwa Picture Tubes, LTD, 18 September 1995, Customer Contact Report, CHU00028865 - CHU00028867, at 8867E.

Industry Participants Indicate that Pass-Through Occurs

CRT product makers

"Our [Dell's] general practice is to rapidly pass on cost declines to our customers to enhance customer value." Dell, 14 March 2008, Dell Form 10-K 2008, <http://www.SEC.gov/Archives/edgar/data/826083/000095013408005718/d55156e10vk.htm>, accessed 20 May 2008, at 5.

In a Harrah's Operating Company request for proposal for LG Electronics USA, Inc. to supply Harrah's with LCD, HD Plasma, HDTV CRT, and Digital CRT televisions, Harrah's states: "Harrah's realizes that a fixed price model may not be the most equitable over time. Please provide a manner to index the price that would be tied to raw materials used in production. The price should reflect the movement of base materials." Harrah's Operating Company, Inc., 09 February 2006, Harrah's Operating Company Request for Proposal, LGE00058322 - LGE00058349, at 8339.

General Purchasing Agreement between Chunghwa Picture Tubes and Philips Consumer Electronics International states: "Supplier agrees to use commercially reasonable efforts to maximize efficiencies and realize cost reductions. Decreases in prices or cost savings will be passed along to Buyer." Chunghwa Picture Tubes, LTD, 01 January 2004, General Purchasing Agreement, CHU00628898 - CHU00628952, at 8903.

In an agreement between Dell and an unnamed supplier: "Cost Reduction. SUPPLIER shall review with Dell, on an ongoing quarterly basis, a value chain analysis for each Product, and the cost trend for the key components including currency content analysis as well as all passthrough expenses. SUPPLIER agrees that the price of the Products will be reduced in accordance with any cost reductions realized." Dell, Undated, Master Purchase Agreement [unsigned] [redacted], CHU00734954 - CHU00734957, at 4954.

Trade press

From an article regarding CDT tube price increase: "Jean [monitor maker] has indicated that CPT [Chunghwa] has already increase [sic] 3 usd per tube to them in January and as a consequence, Jean is trying to reflect such cost to their customers." David Y Chang, 22 January 2002, News from Commercial times, Taiwan, PHLP-CRT-052781, at 2781.

Market research firms

DisplaySearch report: "To calculate the CRT TV price, we used the previous quarter's tube prices to determine the current quarter's CRT TV street prices due to the lag between tube shipment and TV shipment. Thus, tube price reductions are reflected in street prices one quarter later." DisplaySearch, 12 March 2006, Quarterly TV Cost & Price Forecast Model & Report, SDCRT-0002283 - SDCRT-0002362, at 2290.

A United States International Trade Commission (USITC) report discusses the growing percentage of the CRT as a percentage of total CRT TV cost. "Because of the increasing cost of glass, the cost of tubes has risen during the period 1982-93. At the same time, the proliferation of integrated circuitry has reduced the cost of electronic television componentry other than picture tubes. Consequently, the share of television receiver cost attributable to the CRT has risen, and currently represents more than half the total unit cost of a finished color television." United States International Trade Commission, May 1995, Industry & Trade Summary: Television Picture Tubes and Other Cathode-Ray Tubes, USITC Publication 2877, http://www.usitc.gov/publications/701_731/pub3695.pdf, accessed 17 May 2012, at 5.

Tube Manufacturers Monitor Street Prices of CRT Products

Chunghwa

From CDT meeting notes: "In addition, LG provided the information that SEC is selling 17" flat products at a low price of \$165 market price in the US market. This can be converted into FOB price of \$120 and CDT at \$70." Chunghwa Picture Tubes, LTD, 27 June 2001, Visitation Report, CHU00031142 - CHU00031147, at 1144.01E.

A spreadsheet file produced by Chunghwa contains tables with street prices of various CRT TVs by retailer. Chunghwa Picture Tubes, LTD, 20 September 2005, TV Price Summary, CHU00303245.

Chunghwa produced a WitsView spreadsheet containing street prices of CRT TVs and monitors in October 2004. WitsView, October 2004, Street Price Survey on TV & Monitor, CHU00646093.

Chunghwa Picture Tubes presentation includes a slide containing street prices for 15" and 17" monitors. Chunghwa Picture Tubes, LTD, August 2001, Agenda, CHU00660408 - CHU00660418, at 0417.

Hitachi

Hitachi USA testified: "Q. Okay. What's your understanding of street price? A. Street price is what the TV actually sells for. Q. Okay. And that's what the TV is sold for to the end user ultimately? A. Yes. Q. Okay. And did HED/US monitor retail prices of televisions? A. As best we could." 03 July 2012, Deposition of Hitachi Electronic Devices (USA) 30(b)(6) Witness Thomas Heiser, at 136:2-11.

Hitachi presentation includes a table titled "Calculation 21" monitors 2Q 2001". Table lists costs of CDT, Materials, Labor Cost, Sales Profit; FOB price; calculated street price; and actual street price. Hitachi, Ltd. Displays, November 2000, Hitachi Color Display Tube, HEDUS-CRT00044346 - HEDUS-CRT00044371, at 4371.

From an internal Hitachi USA letter: "Enclosed is my pricing survey from September." Several tables titled "Monitor Street Pricing - September 1994" with prices of CRT monitors at various retailers follow. Moore, Jerry, 26 October 1994, Price Survey and Other Information, HEDUS-CRT00104763 - HEDUS-CRT00104768, at 4763 - 4765.

Hitachi testified: "Q. And did Hitachi Limited monitor either street prices or retail prices for CRT monitors? A. Yes. Q. Okay. And how did it go about gathering that information? A. Well, for example, one method would be that we ask the OEM customer. And the second method would be that we, employees of Hitachi Limited, when we go on business trip to the U.S., we would just go shopping to different retail shops. And we didn't get the street price, actually, it is rather difficult to get the street price. But we would make a record as to what were the retailer's prices were, and then when we went back to Japan, we report on those." 12 July 2012, Deposition of Hitachi Displays, Ltd. 30(b)(6) Witness Yasuhiro Morishima, Volume I, at 75:24-76:13.

A document produced by HEDUS is a collection of printouts which list online store retail prices for various TV sets at Best Buy, Circuit City, Goodguys.com, Twitter Products, Blue Light, Sears, and Wal-Mart. Hitachi Electronic Devices (USA), 04 December 2001, Online store TV search results [print-out], HEDUS-CRT00018407 - HEDUS-CRT00018470, at 8407 - 8470.

A Hitachi document contains a slide entitled 27" Retail Pricing. Okybo, 11 September 1996, Fax, RE: HIMEX, HEDUS-CRT00146312 - HEDUS-CRT00146317, at 6315.

LG Philips

LGE testified: "Q. How did you keep track of -- of retail or street prices? [...] A. There is nothing we do to track those, but as I mentioned earlier, there is a periodic report published periodically by display research which contained the retail prices. Q. Okay. Why were you interested in the retail or street prices? A. That was because we needed to know where our prices came in compared to the competitors' prices." 09 July 2012, Deposition of LG Electronics 30(b)(6) Witness Mok Hyeon Seong, at 111:22-112:11.

LG Philips Displays presentation contains slides with average CRT TV prices by size during December 2002 - July 2004. LG, June 2004, US Retail Channel Report, PHLP-CRT-012360, at 5.

A spreadsheet produced by LP Philips contains tables with TV set retail prices for various sizes in years 2000-2007. LG Philips Displays, Undated, TV Set Retail Prices, LPD_00014197 at 1. LG Philips Displays, Undated, TV Set Retail Prices, LPD_00014197.

An LG Philips Displays spreadsheet contains a summary of internal data files and reports by region. Under AM (America) tab one of the data files is titled "Retail pricing survey report". Under description of contents it states: "CTV Set prices at retailers". Under frequency of update it states: "2 months". LG Philips Displays, Undated, Database and Report Summary, LPD_00013386.

LG Philips Displays presentation entitled "US Retail Channel Report" contains slides with average CRT TV prices by size during December 2002 - April 2003. LG, 23 April 2003, US Retail Channel Report, PHLP-CRT-024925, at 14-16.

Matsushita

A Beijing-Matsushita Color CRT Company document lists standard retail prices and Black Friday special prices by retailer, brand, technology, and model. Beijing-Matsushita Color CRT Company, 2003, Y2003 Black Friday Promotion Models of Display Category, BMCC-CRT000001186, at 1186.

MT Picture Display produced a document which contains street prices of CRT TVs of various sizes in 1998 through 2007. Undated, Price Spreadsheet, MTPD-0086013.

A spreadsheet attached to an e-mail between Shinichi Iwamoto, sales general manager for Matsushita Display Devices of America (MDDA), and Ayumu Kinoshita, sales engineer for Matsushita Television Networks Company (MTNC), contains CRT prices, the tube supplier, TV prices from MTNC (the product maker), TV prices from the product distributor (Panasonic Consumer Electronics, PCEC), and street prices. E-mail: Iwamoto, Shinichi, 30 July 2002, E-mail, Subject: This is really strictly confidential material, MTPD-0223727E. Spreadsheet: MT Picture Display, 29 July 2002, USA Set Prices - Margins - CRT Price Component Ratio Review, MTPD-0223728E.

Samsung

A document produced by Samsung contains a list of retail prices of 134 different types of CRT-TVs at Best Buy, Circuit City, Wal-Mart, and Sears. Samsung, 27 February 2006, US CRT Price Survey (2/27/06), SDCRT-0023958.

A document produced by Samsung contains tables with TV retail price survey information. CRT-TV prices are stated for Best Buy and Circuit City. Samsung, 17 January 2006, US FTV Retail Price Survey, SDCRT-0022644.

Samsung Sales Strategy presentation includes a slide with 32" CRT and LCD TV prices at Walmart, Best Buy, and Sears. Samsung SDI, 05 January 2012, '2005 Sales Strategy, SDCRT-0012333, at 8.

Samsung testified: "Q. Was one of the subjects that was discussed at various CRT glass meetings was the street price of CRT monitors? A. Well, there were times when discussions of this kind occurred, but as I mentioned earlier, the -- the amount that went through the direct channel was not very large, and most of the products went to PC OEM makers." 06 June 2012, Deposition of Samsung SDI 30(b)(6) Witness Jaemin Lee, Volume I, at 154:7-21.

Samsung testified regarding tracking of street prices of finished CRT products: "Q Do you track so-called street prices at all for competitors? A. Yes. Q. And how do you do that? A. Our marketing team. Information is either given to them verbally in weekly reports based upon the GSBN system, so they do track that information." 16 July 2012, Deposition of Samsung Electronics America 30(b)(6) Witness Kim London, at 229:21-230:5.

Toshiba

Several slides from a TAEC CDT presentation track the street prices of CDT and LCD monitors by size. Toshiba America Electronic Components, Inc., 23 July 2001, WW CDT Meeting, TAEC-CRT-00055069 - TAEC-CRT-00055130, at 5077-5082.

A Toshiba presentation includes a "Monitor Pricing Ideas" section with a table showing average street prices by screen size during the period Q1 1998 through Q1 2001. Toshiba America, 26 April 2001, WW CDT Meeting, TAEC-CRT-00010351 - TAEC-CRT-00010410, at 0357.

In an internal Toshiba e-mail, an employee shares information about monitor prices from Compaq's website: "Looked into the latest web site, I found different information of my previous mail regarding spec on MV920 versus MV940. [paragraph] MV920 0.26/96 kHz/conventional \$574. MV940 0.26/85kHz/shortlength \$499. [paragraph] The above information is available from Compaq Homepage. Therefore, model name maybe vice versa between SEC and Lite-On. FYI, here is all consumer line monitors." A list with specifications and prices follows. Kazuya Iizuka, 27 June 2000, Re: Liteon-CPQ Consumer 19" P/J (MV940 model), TAEC-CRT-00070348 - TAEC-CRT-00070353, at 0348-0349.

Market Research Firms Monitor and Publish Street Price Data

DisplaySearch report from December 2006 states: "To calculate the CRT TV price, we used the previous quarter's tube prices to determine the current quarter's CRT TV street prices due to the lag between tube shipment and TV shipment. Thus, tube price reductions are reflected in street prices one quarter later". DisplaySearch, 19 December 2006, Quarterly Global TV Shipment and Forecast Report, CHU00004334 - CHU00005025, at 4355.

Among the documents produced by Chunghwa is a WitsView spreadsheet report entitled Display Street Price Survey on TV & Monitor. Report contains street prices of CRT TVs and monitors in October 2004. CPT, October 2004, CHU00646093.

A document produced by Hitachi USA, a Display Monitor report published by Meko Ltd., includes street prices of various 21" CRT monitors. Meko Ltd, 19 June 2000, Display Monitor Volume 7 No 25, HEDUS-CRT00174034 - HEDUS-CRT00174040, at 4054.

A document produced by Chunghwa, entitled "UBS Investment Research Flat TV Price Tracker #3", includes prices of CRT TVs at various US retailers. UBS Investment Research, 13 January 2005, Flat TV Price Tracker #3, Global Equity Research, CHWA00032001 - CHWA00032020, at 2004.

DisplaySearch TV Flash Reports track weekly advertised retail prices of TVs, including CRT TVs, at major retailers like Best Buy and Circuit City. Among DisplaySearch TV Flash Reports produced by Defendants are the following documents:

CHWA00225304	CHWA00225707
CHWA00225321	CHWA00225735
CHWA00225357	CHWA00225766
CHWA00225376	CHWA00225825
CHWA00225402	CHWA00225848
CHWA00225419	CHWA00225908
CHWA00225447	CHWA00225931
CHWA00225465	CHWA00225970
CHWA00225485	CHWA00225988
CHWA00225513	CHWA00226020
CHWA00225530	CHWA00226040
CHWA00225548	CHWA00226056
CHWA00225581	CHWA00226082
CHWA00225597	CHWA00226132
CHWA00225612	CHWA00226162
CHWA00225635	CHWA00226189
CHWA00225663	CHWA00226208
CHWA00225689	CHWA00226236

Defendants in TFT-LCD Antitrust Litigation Acknowledge Pass-through Occurred

Defendants acknowledged that pass-through occurred

Defendants HannStar and Toshiba claimed that Best Buy passed-through most of the cost increases to end users: "Ultimately, several companies agreed to inflate prices on LCDs in laptops and TVs Best Buy purchased and sold to its customers. In the trial, the retailer seeks to recover \$485.9 million on the LCD panels it purchased indirectly, and \$289.9 million on the products it purchased directly from LCD makers, Silberfeld said... Although Best Buy insists that it must recover those 'hidden costs,' the defendants have argued that the retailer passed much of those costs along to the consumer, U.S. District Court Judge Susan Illston told the jury Tuesday." Winegarner, Beth, 23 July 2013, Massive LCD Cartel Cost Best Buy \$800M, Jury Hears, Law360, at 1.

Defendant HannStar's attorney, Robert Freitas, argued that "Best Buy passed on roughly 93 percent of the increased costs to their customers." Winegarner, Beth, 29 August 2013, Best Buy Tells Jury It's Owed \$770M For LCD Price-Fixing, Law360, <http://www.law360.com/articles/468864/print?section=competition>, accessed 30 August 2013.

Defendants' expert, Dean Edward Snyder, testified at trial that pass-through occurred

Dean Snyder calculated the following pass-through rates for products sold at Best Buy: LCD TVs (147%), monitors (97%), notebooks (132%), mobile phones (87%), cameras (108%), camcorders (147%), MP3 players (109%), and portable DVD players (98%). See Best Buy's Motion for an Order Precluding Defendants From Presenting A Sur-Rebuttal Case, Dkt. No. 317, filed Aug. 26, 2013 in Case No. 07-MD-1827 SI, Case No. 10-CV-4572, and Case No. 12-CV-4114, at 39 (attaching Defendants' expert's (Dean Edward Snyder) Demonstratives for the Best Buy LCD Trial).

Dean Snyder's demonstratives provide the following quote taken from an e-mail from Mike Garretson, an employee at Samsung Semiconductor, to Byung Il Oh, a Samsung representative: "HP pays the integrator a fixed amount over [underlined] the cost of the components for the system. Again, if our Panel price is too high, that will cause HP to have to pay more for the system, and therefore have a high end price at retail." Snyder, Edward, 26 August 2013, Edward Snyder's Demonstratives for the Best Buy LCD Trial, Case No. 07-MD-1827 SI, Case No. 10-CV-4572, and Case No. 12-CV-4114, at 38.

Dean Snyder's demonstratives provide the following quote from Genichi Watanabe, Hitachi's Executive Products Manager: "Q. BY MR. ALIOTO: LCD panels, when you sell LCD panels at a lower price to the manufacturers, do you expect that they are going to sell their products to the customers at a lower price? ... THE WITNESS: Yes, I did." Snyder, Edward, 26 August 2013, Edward Snyder's Demonstratives for the Best Buy LCD Trial, Case No. 07-MD-1827 SI, Case No. 10-CV-4572, and Case No. 12-CV-4114, at 38.

Dean Snyder cites the pass-through used by two of Plaintiff's experts for sales of Dell notebooks at Best Buy: the cross-sectional (between-SKUs) rate is just below 100%, and the fixed effects rate is around 110%. Snyder, Edward, 26 August 2013, Edward Snyder's Demonstratives for the Best Buy LCD Trial, Case No. 07-MD-1827 SI, Case No. 10-CV-4572, and Case No. 12-CV-4114, at 37.

Dean Snyder testified that his estimated pass-through rate at Best Buy to consumers is 93%: "Q Okay. Now, using that average rate, could we illustrate again what happens to one dollar of overcharge that gets to the Best Buy level? A Yes. Of that, 93 cents is passed on by Best Buy to consumers. Best Buy buys and sells. They're a retailer. So, for a dollar of overcharges that gets to Best Buy, 93 cents hits consumers." 20 August 2013, Best Buy LCD Trial Transcript, Volume 18, In re: TFT-LCD (Flat-Panel) Antitrust Litigation (United States District Court Northern District of California), Case No. 12-CV-4114, at 2752:8 - 14.

Dean Snyder testified that retailers, on average, pass-through cost changes: "[...] But I also -- as I testified earlier, in general, firms pass on, at least on average." 20 August 2013, Best Buy LCD Trial Transcript, Volume 18, In re: TFT-LCD (Flat-Panel) Antitrust Litigation (United States District Court Northern District of California), Case No. 12-CV-4114, at 2826:24 - 25.

Dean Snyder testified about variation in pass-through rates based on transactions: "[...] In general, firms try to pass on their costs. And that's why you can expect pass-on to be not zero all the time, but it's an empirical question." 20 August 2013, Best Buy LCD Trial Transcript, Volume 18, In re: TFT-LCD (Flat-Panel) Antitrust Litigation (United States District Court Northern District of California), Case No. 12-CV-4114, at 2832:19 - 21.

Dean Edward Snyder testified that the overall pass-through rate is important and can be calculated

Dean Snyder testified that it is possible to determine the average extent of pass-through: "[...] I still think you can take an average pass-on rate. It's hard to figure out how pass-on behavior would affect millions of consumers, but again, to figure out how, on average, that Best Buy was damaged, and the extent of overcharges reaching them and being passed on to consumers, that's possible." 20 August 2013, Best Buy LCD Trial Transcript, Volume 18, In re: TFT-LCD (Flat-Panel) Antitrust Litigation (United States District Court Northern District of California), Case No. 12-CV-4114, at 2842:1 - 7.

Snyder testified that (regarding the Best Buy LCD trial), the important aspect of his pass-through study is to estimate the "chunk" that gets passed on to consumers, and to do that it is not necessary to measure state-by-state, store-by-store, or anything else: "[...] what you want to do is figure out what chunk of overcharges reaches Best Buy, and then what chunk gets passed on to consumers. You don't need to know state by state, store by store, et cetera. And what I said earlier outside the Best Buy example is the key summary of the overall opinion. If you take \$100 of overcharges at the top, at the Panel level, the overall analysis says \$14 -- excuse me, \$16 resides upstream with the parties who make LCD finished products. Seventy-eight ends up with consumers. And a little less than 6 ends up with Best Buy." 20 August 2013, Best Buy LCD Trial Transcript, Volume 18, In re: TFT-LCD (Flat-Panel) Antitrust Litigation (United States District Court Northern District of California), Case No. 12-CV-4114, at 2863:14 - 25.

Pass-Through Study Summary Results

Third Party Name	Distribution Chain Level	Product	Begin Date	End Date	Number of Tubes in Study	Pass-through Rate	Significance (Rate = 100%)	R-Squared	Standard Error of Pass-through Rate
Amazon	Internet Retailer	Monitors	01/02/02	11/16/11	19,847	104%	= 100%	0.98	0.02
Amazon	Internet Retailer	Televisions	02/08/02	01/07/11	20,591	117%	> 100%	0.97	0.01
Arrow Electronics	Product Distributor	Monitors	11/24/97	06/26/06	70,703	109%	> 100%	0.97	0.00
BenQ	Product Maker	Monitors	11/02/98	09/21/05	5,037,064	112%	> 100%	0.95	0.00
Best Buy	Brick & Mortar Retailer	Monitors	04/08/96	03/22/09	13,939,131	110%	> 100%	0.91	0.00
Best Buy	Brick & Mortar Retailer	Televisions	04/08/96	12/27/09	39,584,133	124%	> 100%	0.96	0.00
Best Buy.com	Internet Retailer	Monitors	08/18/00	12/29/07	110,200	138%	> 100%	0.95	0.00
Best Buy.com	Internet Retailer	Televisions	06/12/00	12/31/07	451,463	144%	> 100%	0.98	0.00
Buy.com	Internet Retailer	Monitors	01/13/02	01/28/10	473	116%	> 100%	0.99	0.03
Buy.com	Internet Retailer	Televisions	09/27/02	09/06/10	575	105%	> 100%	0.99	0.01
CDW	Internet Retailer	Monitors	01/03/06	01/08/08	53,063	100%	= 100%	0.93	0.02
CDW	Internet Retailer	Televisions	11/08/05	03/29/10	5,721	102%	= 100%	0.98	0.03
Costco	Brick & Mortar Retailer	Monitors	12/16/96	03/11/06	562,712	107%	> 100%	0.99	0.00
Costco	Brick & Mortar Retailer	Televisions	09/03/96	12/08/07	3,945,136	106%	> 100%	0.99	0.00
Dell	Internet Retailer	Monitors	01/02/02	12/31/06	2,739,263	118%	> 100%	0.92	0.00
Dell (Purchase Costs)	Internet Retailer	Monitors	01/02/02	12/31/06	2,716,596	122%	> 100%	0.92	0.00
Envision	Product Maker	Monitors	01/03/01	05/27/08	1,377,421	100%	> 100%	0.79	0.00
Fry's	Brick & Mortar Retailer	Monitors	01/01/98	10/21/06	1,205,681	113%	> 100%	0.97	0.00
Funai	Product Maker	Televisions	01/03/05	07/28/09	10,958,577	113%	> 100%	0.97	0.00
Gateway	Internet Retailer	Monitors	01/05/98	12/30/04	N/A*	112%	> 100%	0.98	0.01
Ingram Micro	Product Distributor	Monitors	12/31/01	12/27/10	2,646,928	102%	> 100%	1.00	0.00
Ingram Micro	Product Distributor	Televisions	12/31/01	12/07/10	4,960	103%	> 100%	1.00	0.01
Kmart	Brick & Mortar Retailer	Televisions	11/25/04	11/19/09	1,314,151	115%	> 100%	0.94	0.00
OfficeMax	Brick & Mortar Retailer	Desktops	01/26/03	12/01/08	90,747	109%	> 100%	0.79	0.03
OfficeMax	Brick & Mortar Retailer	Monitors	01/26/03	09/25/07	231,354	101%	> 100%	0.77	0.01
PC Connection	Internet Retailer	Monitors	07/08/99	10/29/08	23,101	109%	> 100%	0.98	0.01
PC Connection	Internet Retailer	Televisions	02/05/99	01/08/07	232	106%	> 100%	1.00	0.02
PC Mall	Internet Retailer	Desktops	06/06/02	03/07/06	5,638	101%	= 100%	0.95	0.01
PC Mall	Internet Retailer	Monitors	02/27/94	06/18/09	159,587	110%	> 100%	0.98	0.00

Third Party Name	Distribution Chain Level	Product	Begin Date	End Date	Number of Tubes in Study	Pass-through Rate	Significance (Rate = 100%)	R-Squared	Standard Error of Pass-through Rate
PC Mall	Internet Retailer	Televisions	09/24/96	11/19/09	2,001	112%	> 100%	0.99	0.02
Philips	Product Maker	Monitors	06/01/00	08/01/07	2,425,995	110%	> 100%	0.95	0.02
Philips	Product Maker	Televisions	02/01/00	05/01/09	20,975,642	106%	> 100%	0.94	0.01
RadioShack	Brick & Mortar Retailer	Monitors	01/01/02	07/04/09	165,233	108%	> 100%	0.84	0.00
RadioShack	Brick & Mortar Retailer	Televisions	01/01/02	02/29/08	1,016,643	105%	> 100%	0.88	0.00
Sam's Club (Retail Prices)	Brick & Mortar Retailer	Televisions	08/13/01	11/19/05	17,939	98%	= 100%	1.00	0.02
Sam's Club (Transaction Prices)	Brick & Mortar Retailer	Televisions	09/08/01	12/17/05	15,871	113%	> 100%	0.98	0.03
Sanyo	Product Maker	Televisions	12/01/94	07/01/07	N/A*	150%	> 100%	0.96	0.01
Sears	Brick & Mortar Retailer	Monitors	01/05/99	12/28/05	769,667	100%	= 100%	0.71	0.01
Sears	Brick & Mortar Retailer	Televisions	01/05/99	01/14/09	13,418,767	128%	> 100%	0.94	0.00
Sharp Electronics	Product Maker	Televisions	10/01/97	11/01/07	11,496,675	104%	= 100%	0.90	0.03
Target (Retail Prices)	Brick & Mortar Retailer	Monitors	05/01/05	10/01/09	805,388	117%	> 100%	0.99	0.04
Target (Transaction Prices)	Brick & Mortar Retailer	Televisions	05/01/05	10/01/09	805,388	121%	> 100%	0.98	0.09
Tatung	Product Maker	Monitors	09/02/98	10/31/06	222,516	100%	= 100%	0.93	0.01
Tech Data	Product Distributor	Monitors	11/03/97	10/29/07	1,217,901	100%	> 100%	0.99	0.00
Toshiba America Consumer Products (TACP)	Product Maker	Televisions	04/12/95	03/31/06	20,313,733	117%	> 100%	0.97	0.00
Toshiba America Electronics Corporation	Tube Distributor	Tubes for Monitors	04/23/94	06/28/00	1,854,536	96%	= 100%	0.99	0.02
Toshiba America Electronics Corporation	Tube Distributor	Tubes for TVs	04/27/94	11/22/02	12,188,332	100%	> 100%	1.00	0.00
Toshiba America Information Systems	Product Maker	Monitors	11/01/96	04/01/05	327,738	112%	= 100%	0.78	0.14
ViewSonic	Product Maker	Monitors	04/16/97	10/31/01	1,109,928	118%	> 100%	0.96	0.00
Wal-Mart/Sanyo	Brick & Mortar Retailer	Televisions	12/01/94	08/03/09	N/A*	116%	> 100%	1.00	0.01
Wal-Mart (Retail Prices)	Brick & Mortar Retailer	Televisions	06/23/01	08/07/10	48,156	110%	> 100%	0.99	0.05
Wal-Mart (Transaction Prices)	Brick & Mortar Retailer	Televisions	06/25/01	08/07/10	47,141	106%	> 100%	0.99	0.02
Zones	Internet Retailer	Desktops	01/03/00	04/01/03	7,175	113%	> 100%	0.97	0.01
Zones	Internet Retailer	Monitors	01/03/00	01/11/08	41,368	104%	> 100%	0.97	0.00
Envision - Ingram Micro - PC Connection	Multi-Level	Monitors	01/15/02	11/19/05	**	127%	= 100%		0.09

Third Party Name	Distribution Chain Level	Product	Begin Date	End Date	Number of Tubes in Study	Pass-through Rate	Significance (Rate = 100%)	R-Squared	Standard Error of Pass-through Rate
Philips - Best Buy	Multi-level	Televisions	06/01/00	07/01/06	***	139%	> 100%		0.07
Philips - Costco	Multi-level	Televisions	06/01/00	02/01/07	****	133%	> 100%		0.07
Panasonic - Best Buy.com	Top-and-bottom	Televisions	06/12/00	04/06/07	15,551	115%	> 100%	0.73	0.06
Samsung - Best Buy	Top-and-bottom	Televisions	01/01/98	12/01/07	2,402,442	155%	> 100%	0.86	0.01
Sanyo - Wal-Mart	Top-and-bottom	Televisions	12/01/94	07/01/07	N/A*	185%	> 100%	0.95	0.19
Sanyo - Wal-Mart	Top-to-bottom	Televisions	12/01/94	07/01/07	N/A*	176%	> 100%		0.16
Toshiba	Top-to-bottom	Televisions	09/03/96	03/31/06	*****	183%	> 100%		0.00

Note(s):

Unless otherwise noted, the number of observations is weighted by the transaction quantity. Studies that are not weighted by transaction quantity are Gateway, Wal-Mart/Sanyo, and the Sanyo - Wal-Mart top-and-bottom and top-to-bottom studies.

Cost data is generally produced in two forms: synchronized with the sales data, or separate from the sales data. Synchronized cost data appears in the sales data as a separate field and does not need to be matched with sales data.

When costs and prices (i.e. purchases and sales) are not synchronized, I calculate average costs for each product over a certain time (generally daily or weekly average costs).

Where possible, I also conduct pass-through studies on desktop computers that are all-in-one computers featuring a built-in CRT monitor, or that are bundled with CRT monitors.

Studies combining Wal-Mart and Sanyo data use price lists of Sanyo products sold in Wal-Mart stores. The price variable is Wal-Mart's retail price, and the cost variable is FOB costs from products sold by Sanyo Manufacturing Corporation to Wal-Mart.

The columns Begin Date and End Date represent the oldest and most recent dates for all observations in each study.

All pass-through studies except Toshiba America Electronics Corporation and PC Connection (television) are run with robust standard errors, i.e. I conducted a Breusch-Pagan test for heteroskedasticity and this rejected the null hypothesis of no heteroskedasticity. The Toshiba America Electronics Corporation studies use standard errors that allow for clustering (correlation between observations within each cluster).

* The data used for these studies do not feature sufficient quantity information for a tube count.

** The Envision - Ingram Micro - PC Connection study involves 12,641 tubes at the Envision level, 324 tubes at the Ingram Micro level, and 307 tubes at the PC Connection level.

*** The Philips - Best Buy study involves 1,655,162 tubes at the Philips level and 1,587,196 tubes at the Best Buy level.

**** The Philips - Costco study involves 890,557 tubes at the Philips level and 822,079 tubes at the Costco level.

***** The Toshiba top-to-bottom study involves 6,035,699 tubes at the TAEC level, 280,337 tubes at the TACP level, and 1,291,761 tubes at the Costco level.

Source File(s):

See Exhibit 71.

Pass-Through Study Explanatory Variable List

Third Party Name	Distribution Chain Level	Product	Price		Cost	Size	Brand	Resolution	Flat Screen	HDTV	VCR Combo	DVD Combo	Time	Other Explanatory Variables
			Description	Cost Description										
Amazon	Internet Retailer	Monitors	Transaction Prices	Synchronized	X	X	X	X						
Amazon	Internet Retailer	Televisions	Transaction Prices	Synchronized	X	X	X		X	X		X		
Arrow Electronics	Product Distributor	Monitors	Transaction Prices	Synchronized	X	X		X						
BenQ	Product Maker	Monitors	Transaction Prices	Synchronized	X	X	X	X						
Best Buy	Brick & Mortar Retailer	Monitors	Transaction Prices	Synchronized	X	X			X					Wide screen.
Best Buy	Brick & Mortar Retailer	Televisions	Transaction Prices	Synchronized	X	X			X	X	X	X		Wide screen; HD-ready; Picture-in-picture.
Best Buy.com	Internet Retailer	Monitors	Transaction Prices	Synchronized	X	X	X		X					
Best Buy.com	Internet Retailer	Televisions	Transaction Prices	Synchronized	X	X	X		X	X	X	X		Wide screen; HD-ready; Picture-in-picture; Slim tube.
Buy.com	Internet Retailer	Monitors	Transaction Prices	Synchronized	X	X	X	X	X					
Buy.com	Internet Retailer	Televisions	Transaction Prices	Synchronized	X	X	X		X	X	X	X		
CDW	Internet Retailer	Monitors	Transaction Prices	Monthly Average	X	X		X	X					
CDW	Internet Retailer	Televisions	Transaction Prices	Monthly Average	X	X	X		X	X	X	X		
Costco	Brick & Mortar Retailer	Monitors	Transaction Prices	Weekly Average	X	X	X		X					Wide screen; HD-ready; Picture-in-picture.
Costco	Brick & Mortar Retailer	Televisions	Transaction Prices	Weekly Average	X	X	X		X	X	X	X		
Dell	Internet Retailer	Monitors	Transaction Prices	Synchronized	X	X		X						
Dell (Purchase Costs)	Internet Retailer	Monitors	Transaction Prices	Weekly Average	X	X	X		X					
Envision	Product Maker	Monitors	Transaction Prices	Synchronized	X	X			X					Speakers.
Fry's	Brick & Mortar Retailer	Monitors	Transaction Prices	Synchronized	X	X	X		X					Refurbished.
Funai	Product Maker	Televisions	Transaction Prices	Monthly Average	X	X	X		X		X	X		
Gateway	Internet Retailer	Monitors	List Prices	Daily Average	X	X								
Ingram Micro	Product Distributor	Monitors	Transaction Prices	Synchronized	X	X		X	X					
Ingram Micro	Product Distributor	Televisions	Transaction Prices	Synchronized	X	X			X	X				Wide screen.
Kmart	Brick & Mortar Retailer	Televisions	Transaction Prices	Weekly Average	X	X	X		X	X	X	X		
OfficeMax	Brick & Mortar Retailer	Desktops	Transaction Prices	Synchronized	X									RAM; Hard Drive Size; Processor Type; Processor Speed; Condition Type; Distribution Channel
OfficeMax	Brick & Mortar Retailer	Monitors	Transaction Prices	Synchronized	X	X			X					Condition Type; Distribution Channel.

[illegible]

Third Party Name	Distribution Chain Level	Product	Price Description	Cost Description	Cost	Size	Brand	Resolution	Flat Screen	HDTV	VCR Combo	DVD Combo	Time	Other Explanatory Variables
Toshiba America Information Systems	Product Maker	Monitors	Monthly Average Prices	Monthly Average	X	X								Remanufactured; Obsolete; Discounted; Limited; Product Line; Multimedia; Casing Color
ViewSonic	Product Maker	Monitors	Transaction Prices	Weekly Average	X	X		X						Multimedia.
Wal-Mart (Retail Prices)	Brick & Mortar Retailer	Televisions	Weekly Average Prices	Weekly Average	X	X	X		X	X	X			
Wal-Mart (Transaction Prices)	Brick & Mortar Retailer	Televisions	Transaction Prices	Weekly Average	X	X	X			X	X		Month	
Wal-Mart/Sanyo	Brick & Mortar Retailer	Televisions	List Prices	FOB Costs	X	X		X	X	X				Wide screen, Picture-in-picture.
Zones	Internet Retailer	Desktops	Transaction Prices	Synchronized	X									RAM; Processor Speed
Zones	Internet Retailer	Monitors	Transaction Prices	Synchronized	X	X	X	X	X					
Envision - Ingram Micro - PC Connection	Multi-level	Monitors	Weekly Average Prices	Weekly Average	X	X								
Philips - Best Buy	Multi-level	Televisions	Monthly Average Prices	Monthly Average	X	X			X					
Philips - Costco	Multi-level	Televisions	Monthly Average Prices	Monthly Average	X	X			X					
Panasonic - Best Buy.com	Top-and-bottom	Televisions	Transaction Prices	Monthly Average	X	X		X	X	X	X	X		Picture-in-picture.
Samsung - Best Buy	Top-and-bottom	Televisions	Transaction Prices	Monthly Average	X	X		X	X	X	X			
Sanyo - Wal-Mart	Top-and-bottom	Televisions	List Prices	Monthly Average	X	X		X	X	X				Picture-in-picture.
Sanyo - Wal-Mart	Top-to-bottom	Televisions	List Prices	Monthly Average	X	X		X	X	X				Picture-in-picture.
Toshiba	Top-to-bottom	Televisions	Transaction Prices	Monthly Average	X	X		X	X	X	X			Wide screen; Picture-in-picture.

Note(s):

Cost data is generally produced in two forms: synchronized with the sales data, or separate from the sales data.

When costs and prices (i.e. purchases and sales) are not synchronized, I calculate average costs for each product over a certain time (generally weekly or monthly average costs).

Where possible, I also conduct pass-through studies on desktop computers that are all-in-one computers featuring a built-in CRT monitor, or that are bundled with CRT monitors.

The Wal-Mart - Sanyo studies use price lists of Sanyo products sold in Wal-Mart stores. The price variable is Wal-Mart's retail price, and the cost variable is FOB costs from products sold by Sanyo Manufacturing Corporation to Wal-Mart.

Source File(s):

See Exhibit 71.

CRT Tube Sales Data

Source Files	Data Cleaning Program	Resulting Data File	Start Date	End Date	Granularity	Application	Size	Shape	Finish
Chunghwa									
CHWA00000001 [Headings for CPTM Transactional Records].xls	CHWA000000002.do	CHWA000000002.dta	1/3/1994	12/29/2006	Transactional	Yes	Yes	No	Yes
CHWA00000005 [CPTF Transactional Records].xls	CHWA000000005.do	CHWA000000005.dta	11/3/1997	12/29/2006	Transactional	Yes	Yes	No	Yes
CHWA00000009 [CPTT Transactional Records 1994-1998].xls	CHWA000000009.do	CHWA000000009.dta	1/4/1994	12/30/1998	Transactional	Yes	Yes	No	Yes
CHWA00000011 [CPTT Transactional Records 1999-2003].xls	CHWA000000011.do	CHWA000000011.dta	1/4/1999	2/27/2003	Transactional	Yes	Yes	No	Yes
CHWA00256935.XLS	CHWA00256935.do	CHWA00256935.dta	12/8/2006	12/29/2007	Transactional	Yes	Yes	No	Yes
CHWA00256936.XLS	CHWA00256936.do	CHWA00256936.dta	1/2/2007	11/17/2011	Transactional	Yes	Yes	No	Yes
CHWA00256937.XLS	CHWA00256937.do	CHWA00256937.dta	-	-	Transactional	Yes	Yes	No	Yes
CPTM Order Numbers.xlsx	CHWA_combined.do	CHWA_combined.dta	1/3/1994	11/17/2011	Transactional	Yes	Yes	No	Yes
Hitachi									
HEDUS-CRT00179555.xlsx	HEDUS-CRT.do	HEDUS-CRT.dta	7/18/1994	6/26/2003	Transactional	Yes	Yes	No	Yes
HDP-CRT00018516-T.xls	HDP-CRT00018516.do	HDP-CRT00018516_1995-1997.dta	1995h1	1997m1	Semiannual	Yes	No	No	No
exchange_rates_daily.dta		HDP-CRT00018516_1997-2004.dta	5/12/1997	2/21/2005	Transactional	Yes	Yes	No	Yes
exchange_rates_semiannual.dta									
03 July 2012, Deposition of Hitachi Electronic Devices (USA) 30(b)(6) Witness Thomas Heiser.									
Hitachi, Undated, Specifications, HDP-CRT00018517 - HDP-CRT00018518.									

Source Files	Data Cleaning Program	Resulting Data File	Start Date	End Date	Granularity	Application	Size	Shape	Finish
LPD									
LGE00057595.xls	LG_rofo_load.do	LG_rofo_load.dta							
LPD_00034712.xls	LG_rofo_data_clean.do	LG_rofo_data_clean.dta	Jan-2001	Dec-2003	Monthly	Yes	Yes	No	Yes
LPD_00010955.xls		LG_rofo_data_clean_drop_ottawa.dta							
LGE00057776.xls	lge_clean.do	lge_clean.dta	Jan-1992	Dec-1999	Monthly	Yes	Yes	No	Yes
LGE00057608.xls									
LGE00057028.xls									
LGE00057277.xls									
LGE00057554.xls									
LGE00057335.xls									
LGE00057547_ae.xls									
LGE00057582_ae.xls									
LGE--Highly Confidential 7.xls	lge_purchases_clean.do	lge_purchases_dropoverlap.dta	Jan-2002	May-2008	Monthly	Yes	Yes	Yes	Yes
61 Billing files	lpd_load.do	lpd_load.dta							
LPD_00005516.xls	lpd_clean.do	lpd_clean.dta	Apr-1999	Jun-2004	Monthly	Yes	Yes	No	Yes
LPD_00044227.xls									
Panasonic									
MTPD-0122906.xls	MTPD-0122906.do	MTPD-0122906.dta	Jan-1994	Sep-2007	Monthly	Yes	Yes	Yes	Yes
m_t_mtpd.xlsx									
exchange_rates_daily.dta									
Philips									
YTDDEC93.xlsx	Philips sales clean.do	Philips sales clean.dta	1/3/1993	4/1/1999	Transactional	Yes	Yes	No	Yes
YTDDEC94.xlsx									
YTDDEC95.xlsx									
YTDDEC96.xlsx									
YTDDEC97.xlsx									
YTDDEC98.xlsx									
YTDINVC.xlsx									
Samsung									
SDCRT-0083119.2.xlsx	SDCRT-0083119.2.do	SDCRT-0083119.2.dta	Jan-1998	Dec-2007	Monthly	Yes	Yes	Yes	Yes
aE_SDCRT-0083119.2_with_translations.xlsx									
Translations_of_customer_names.xlsx									
exchange_rates_monthly.dta									

Source Files	Data Cleaning Program	Resulting Data File	Start Date	End Date	Granularity	Application	Size	Shape	Finish
SDI, Undated, Model of SDI CRT Product, SDCRT-0021278 - SDCRT-0021294.									
SDCRT-0021278.xlsx									
Toshiba									
TSB-CRT-00061306-317	TSB-CRT.do	TSB-CRT.dta	10/2/1995	1/14/2004	Transactional	Yes	Yes	No	Yes
TSB-CRT-00061306_AE_translation-TSB-CRT-00061317_AE_translation									
TAEC-CRT-00016371_CONFIDENTIAL.xls	TAEC-CRT-00016371.do	TAEC-CRT-00016371.dta	4/19/1994	6/30/2000	Transactional	Yes	Yes	No	Yes
TAEC-CRT-00016373_CONFIDENTIAL.xls	TAEC-CRT-00016373.do	TAEC-CRT-00016373.dta	7/24/2000	12/2/2003	Transactional	Yes	Yes	Yes	Yes
exchange_rates_daily.dta									
All Defendants									
CHWA_combined.dta	all_defendants_price.do	all_defendants_dropexout_collapsed.dta							
HEDUS-CRT.dta									
HDP-CRT00018516_1997-2004.dta									
lge_clean.dta									
lpd_clean.dta									
lge_purchases_dropoverlap.dta									
LG_rofo_data_clean_drop_ottawa.dta									
MTPD-0122906.dta									
Phillips sales clean.dta									
SDCRT-0083119.2.dta									
TAEC-CRT-00016371.dta									
TAEC-CRT-00016373.dta									
TSB-CRT.dta									

Note(s):

Defendants use the worldwide type designation code system (WTDS) for model numbers, with the exception of SDI. Chungwha's data that includes WTDS codes contains inconsistencies. Therefore, Chungwha's item number is used instead of WTDS code. Defendants have identified how to determine application, aspect ratio, size, and ITC vs. bare from the WTDS code. The defendants have not produced documentation or identified a method for pulling additional information from the family code or version component of the WTDS number.

Direct Overcharge Models and Sensitivity Checks

CDTs

Model	Overcharge	Standard Error	Root Mean Squared Error	Adjusted R2	Number of Observations
Direct overcharge model	-	-	0.095	0.952	1114
1995Q2 - 2006Q4	25.0%	4.3%	-	-	-
2007Q1 - 2007Q4	12.3%	5.6%	-	-	-
...using data from after 2008	.	.	0.096	0.951	1134
1995Q2 - 2006Q4	24.1%	4.5%	-	-	-
2007Q1 - 2007Q4	11.8%	5.6%	-	-	-
...without squared demand terms	.	.	0.097	0.951	1114
1995Q2 - 2006Q4	27.9%	4.9%	-	-	-
2007Q1 - 2007Q4	19.0%	5.1%	-	-	-
...with lagged cost and demand terms	-	-	0.096	0.952	1112
1995Q2 - 2006Q4	23.3%	4.0%	-	-	-
2007Q1 - 2007Q4	8.3%	4.7%	-	-	-
...with a single cartel period (1995Q2 - 2006Q4)	18.5%	4.5%	0.096	0.951	1114
...with the complaint cartel period (1995Q2 - 2007Q4)	19.4%	5.8%	0.096	0.951	1114

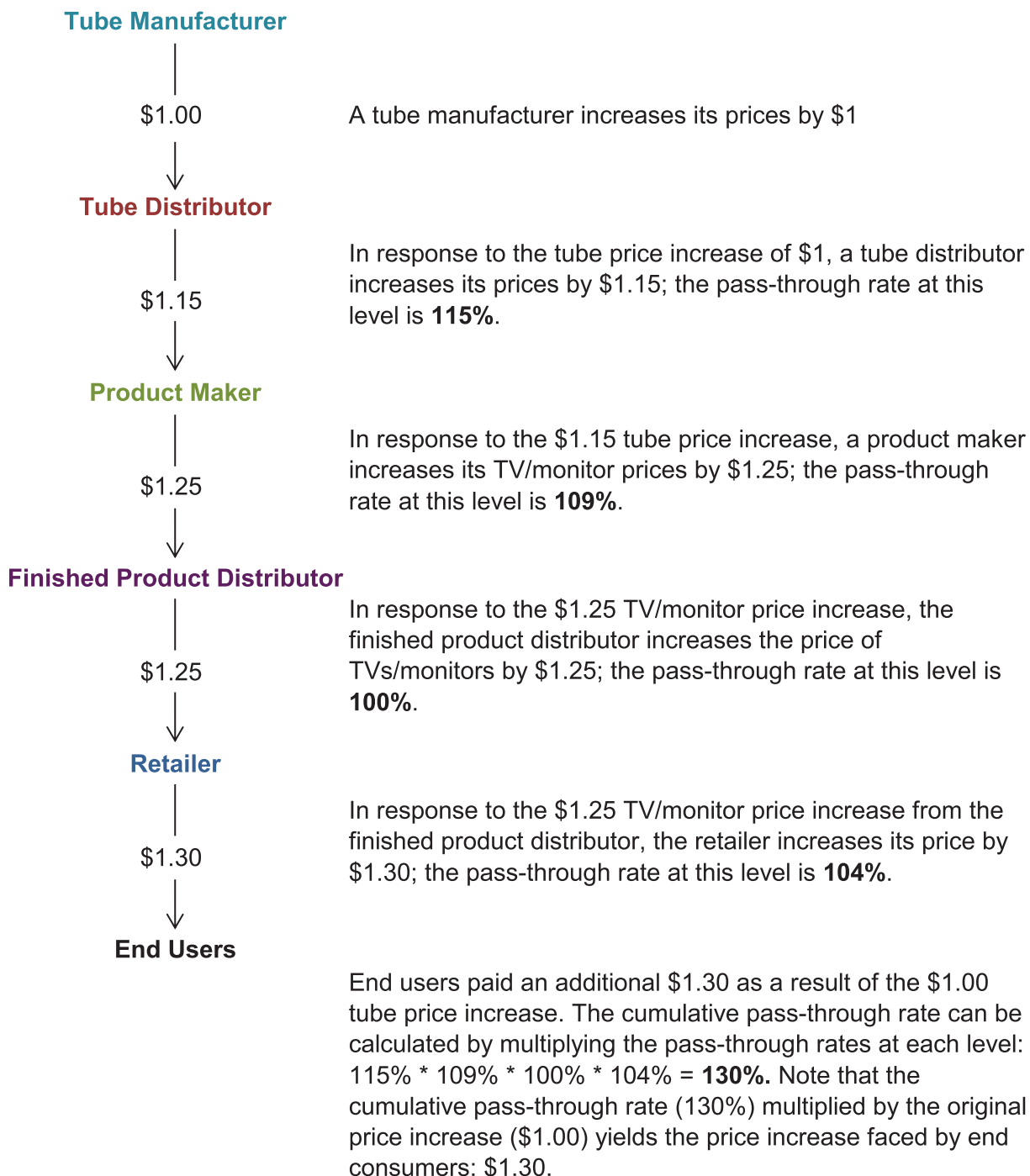
CPTs

Model	Overcharge	Standard Error	Root Mean Squared Error	Adjusted R2	Number of Observations
Direct overcharge model	-	-	0.081	0.986	2574
1995Q2 - 2006Q4	9.5%	2.0%	-	-	-
2007Q1 - 2007Q4	3.2%	1.7%	-	-	-
...without squared demand terms	-	-	0.081	0.986	2574
1995Q2 - 2006Q4	9.3%	2.1%	-	-	-
2007Q1 - 2007Q4	4.9%	1.6%	-	-	-
...with lagged cost and demand terms	-	-	0.083	0.985	2566
1995Q2 - 2006Q4	9.9%	2.5%	-	-	-
2007Q1 - 2007Q4	3.5%	2.1%	-	-	-
...with a single cartel period (1995Q2 - 2006Q4)	7.1%	1.3%	0.081	0.986	2574
...with the complaint cartel period (1995Q2 - 2007Q4)	4.8%	1.7%	0.081	0.986	2574

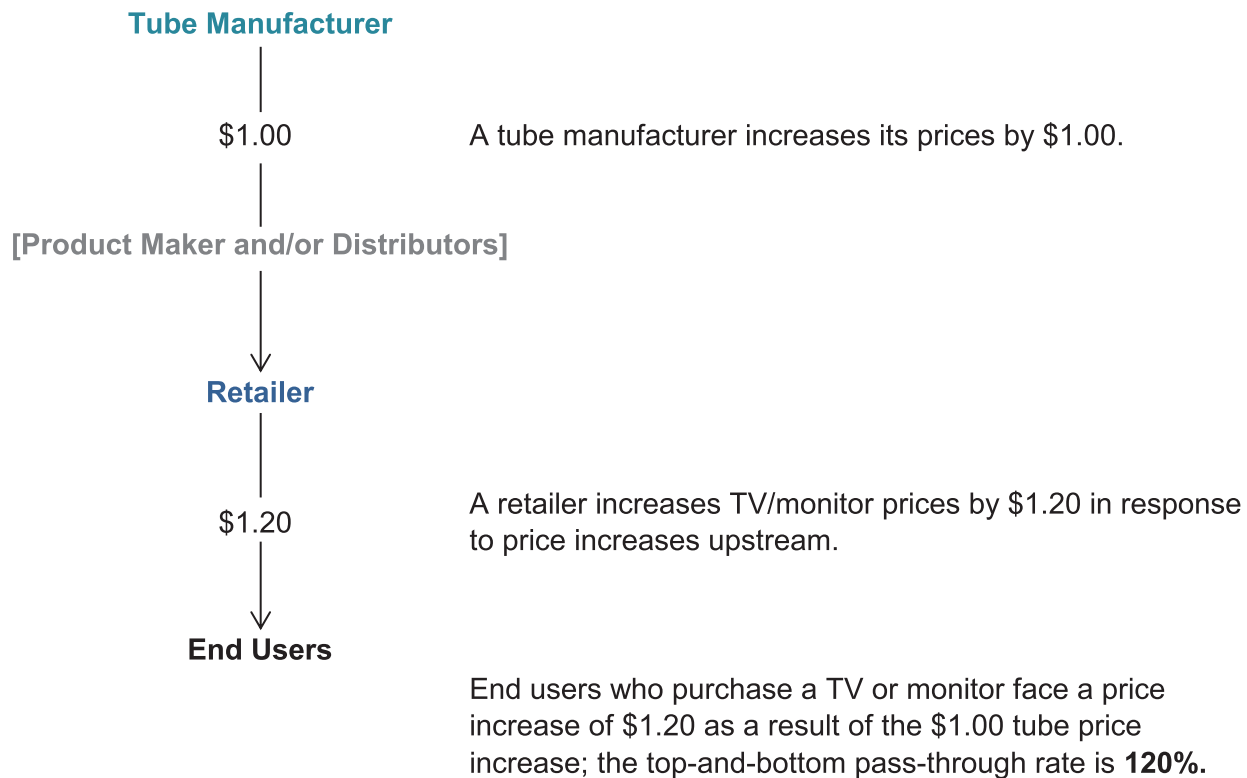
Data Source(s): See Exhibit 83.

Source File(s): CDT_model.do; robustness.do; sensitivity_table.do; lcd_data.do; input_data.do; oecd_data.do; bok_glass_ppi.do

Top-to-Bottom Pass-Through Method

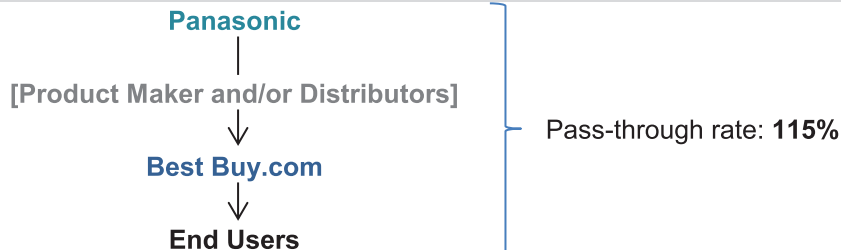


Top-and-Bottom Pass-Through Method



Top-and-Bottom Pass-Through Study Results

Panasonic - Best Buy.com



Samsung - Best Buy



Sanyo - Wal-Mart



Note(s):

The Sanyo - Wal-Mart top-and-bottom study uses Sanyo tube purchase data that include tubes from many manufacturers.

Pass-through rates rounded to the nearest percent.

Source File(s):

panasonic_bestbuy_com_TAB_report.do

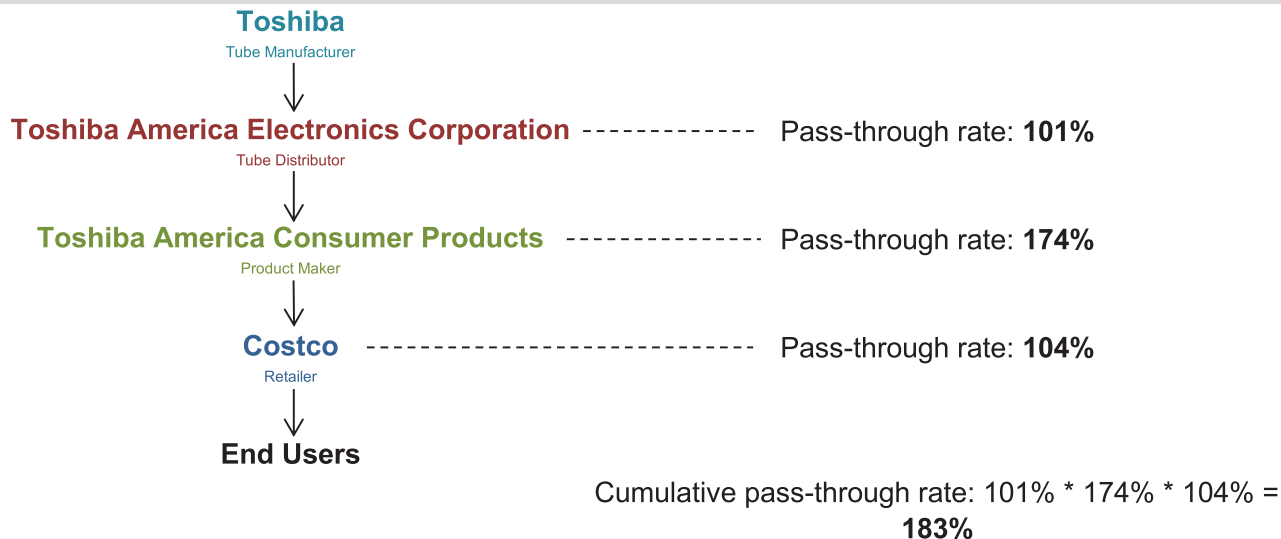
samsung_bestbuy_TAB_report.do

sanyo_combined_report.do

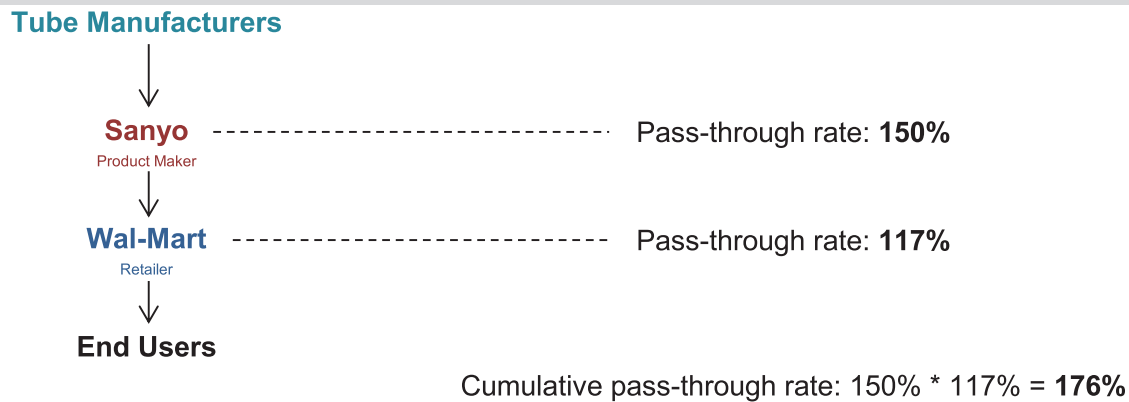
See Exhibit 71

Top-to-Bottom Pass-Through Study Results

Toshiba



Sanyo - Wal-Mart



Note(s):

The Sanyo - Wal-Mart study uses Sanyo tube purchase data that include tubes from many manufacturers. Pass-through rates are rounded to the nearest percent.

Source File(s):

sanyo_combined_report.do
toshiba_top_to_bottom.do
See Exhibit 71

Multi-Level Pass-Through Study Results

Envision - Ingram Micro - PC Connection

Tube Manufacturers



[Tube Distributors]*



Envision ----- Pass-through rate: **112%**



Ingram Micro ----- Pass-through rate: **103%**



PC Connection ----- Pass-through rate: **109%**



End Users

Cumulative pass-through rate: $112\% \times 103\% \times 109\% = \mathbf{127\%}$

Philips - Best Buy

Tube Manufacturers



[Tube Distributors]*



Philips ----- Pass-through rate: **100%**



Best Buy ----- Pass-through rate: **139%**



End Users

Cumulative pass-through rate: $100\% \times 139\% = \mathbf{139\%}$

Philips - Costco

Tube Manufacturers



[Tube Distributors]*



Philips ----- Pass-through rate: **123%**



Costco ----- Pass-through rate: **108%**



End Users

Cumulative pass-through rate: $123\% \times 108\% = \mathbf{133\%}$

Note(s):

* Tube distributors may not be present in the distribution chain.

Pass-through rates are rounded to the nearest percent.

Source File(s):

envision_im_pcc_report.do

philips_costco_report.do

philips_bestbuy_report.do

See Exhibit 71

Pass-Through Stata File List

Study Name	Stata Program Names
Amazon	Import Amazon Specs.do amazon_data_cleaning.do amazon_report.do
Arrow	arrow_data_cleaning.do arrow_report.do
BenQ	benq_customer_list.do benq_data_cleaning.do benq_report.do
Best Buy	bestbuy_sku_list.do bestbuy_data_load.do bestbuy_20100128_production_load.do bestbuy_20121024_production_load.do bestbuy_data_cleaning.do bestbuy_report.do
Best Buy.com	bestbuy_com_data_load.do bestbuy_com_data_clean.do bestbuy_com_report.do
Buy.com	Import BuyCom Digests.do ReadSKUs.do buycom_data_cleaning.do buycom_report.do
CDW	cdw_data_cleaning.do cdw_report.do
Costco	costco_data_load.do costco_data_cleaning.do costco_report.do
Dell	dell_data_cleaning.do dell_report.do
Envision	envision_data_cleaning.do envision_report.do
Fry's	frys_data_cleaning.do frys_report.do
Funai	funai_data_cleaning.do funai_report.do
Gateway	gateway_data_cleaning.do gateway_report.do
Ingram Micro	ingram_micro_data_load.do ingram_micro_data_cleaning.do ingram_micro_report.do
Kmart	kmart_data_load.do kmart_data_clean.do kmart_report.do
OfficeMax	item_selection.do officemax_data_cleaning.do officemax_report.do

Study Name	Stata Program Names
PC Connection	pcconnection_data_cleaning.do pcconnection_report.do
PC Mall	pcmall_data_cleaning.do pcmall_report.do
RadioShack	radioshack_data_load.do radioshack_data_clean.do radioshack_report.do
Sam's Club (Retail Prices)	selected_stores.do selected_items.do additional_wm_sams_skus.do sams_retail_prices.do sams_retail_prices_report.do
Sam's Club (Transaction Prices)	selected_stores.do selected_items.do additional_wm_sams_skus.do sams_data_cleaning.do sams_report.do
Sanyo	sanyo_data_combine.do sanyo_combined_report.do
Sears	sears_data_load.do sears_data_clean.do sears_add_date.do sears_report.do
Target	target_data_clean.do target_report.do
Tatung	tatung_costs.do tatung_sales.do tatung_report.do
Tech Data	techdata_data_cleaning.do techdata_report.do
Toshiba America Consumer Products (TACP)	tacp_sales_load.do tacp_sales_clean.do tacp_report.do
Toshiba America Electronic Components (TAEC)	taec_data_load.do taec_report.do
Toshiba America Information Systems (TAIS)	tais_sales.do tais_report.do
ViewSonic	viewsonic_data_cleaning.do viewsonic_report.do
Wal-Mart (Retail Prices)	selected_stores.do selected_items.do additional_wm_sams_skus.do walmart_retail_prices.do walmart_retail_prices_report.do
Wal-Mart (Transaction Prices)	selected_stores.do selected_items.do additional_wm_sams_skus.do walmart_data_cleaning.do

Study Name	Stata Program Names
	walmart_report.do
Wal-Mart/Sanyo	sanyo_data_cleaning.do sanyo_report.do
Zones	zones_item_selection.do zones_data_cleaning.do zones_report.do
Multi-Level: Envision - Ingram Micro - PC Connection	envision_data_cleaning.do ingram_micro_data_load.do ingram_micro_data_cleaning.do pcc_clean_ingram_envision_only.do envision_im_pcc_merge.do envision_im_pcc_report.do
Multi-Level: Philips - Best Buy	bestbuy_sku_list.do bestbuy_data_load.do bestbuy_20100128_production_load.do bestbuy_20121024_production_load.do bestbuy_data_cleaning.do philips_data_load.do philips_data_clean.do philips_bestbuy_load_clean.do philips_bestbuy_report.do
Multi-Level: Philips - Costco	costco_data_load.do costco_philipsonly_clean.do philips_data_load.do philips_data_clean.do philips_costco_clean.do philips_costco_report.do
Top-and-Bottom: Panasonic - Best Buy.com	bestbuy_com_data_load.do bestbuy_com_data_clean.do MTPD-0122906.do panasonic_bestbuy_com_TAB_clean.do panasonic_bestbuy_com_TAB_report.do
Top-and-Bottom: Samsung - Best Buy	bestbuy_sku_list.do bestbuy_data_load.do bestbuy_20100128_production_load.do bestbuy_20121024_production_load.do bestbuy_data_cleaning.do SDCRT-0083119.2.do samsung_bestbuy_tab_load.do samsung_bestbuy_tab_clean.do samsung_bestbuy_tab_report.do
Top-and-Bottom: Sanyo - Wal-Mart	sanyo_data_cleaning.do sanyo_data_combine.do sanyo_combined_report.do
Top-to-Bottom: Sanyo - Wal-Mart	sanyo_data_cleaning.do sanyo_data_combine.do sanyo_combined_report.do

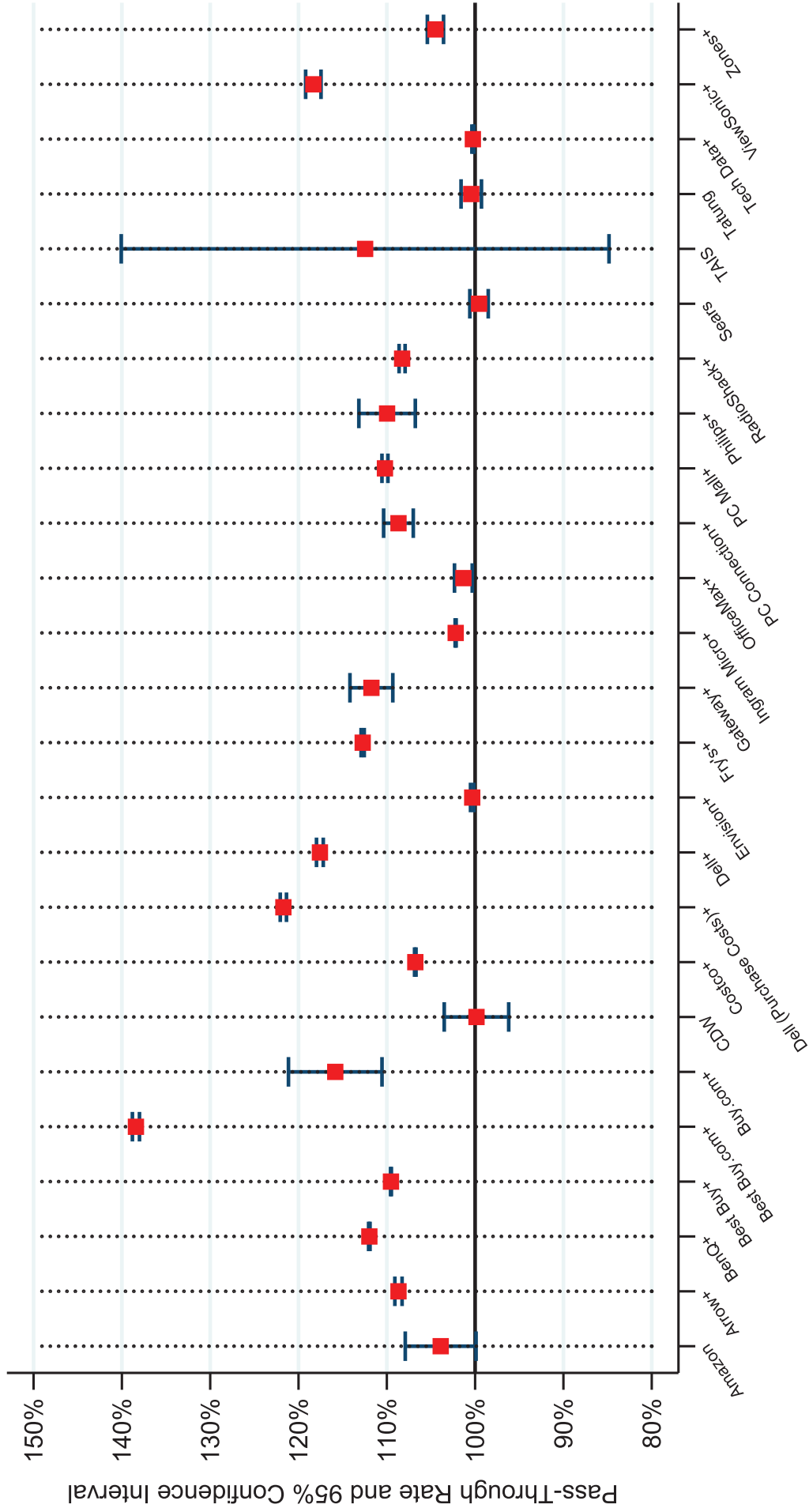
Study Name	Stata Program Names
Top-to-Bottom: Toshiba	taec_data_load.do tacp_sales_load.do tacp_sales_clean.do costco_data_load.do costco_data_cleaning.do toshiba_top_to_bottom.do

Note(s):

Programs are listed in the order they should be run.

Monitor Pass-Through

Calculated Pass-Through Rates and 95% Confidence Intervals

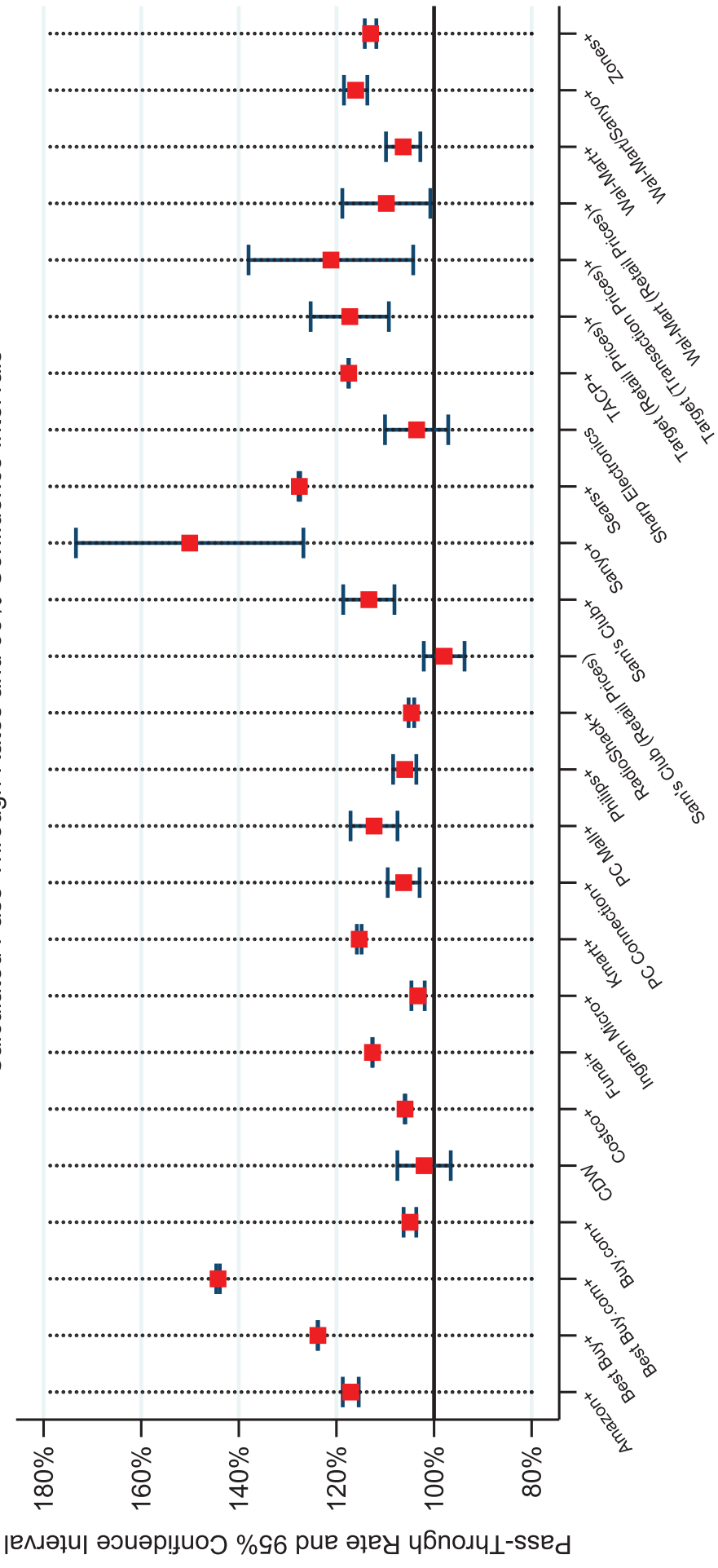


Econometric Study

Note: + The pass-through rate is statistically greater than 100%.
Source Files: See Exhibit 71.

Television Pass-Through

Calculated Pass-Through Rates and 95% Confidence Intervals

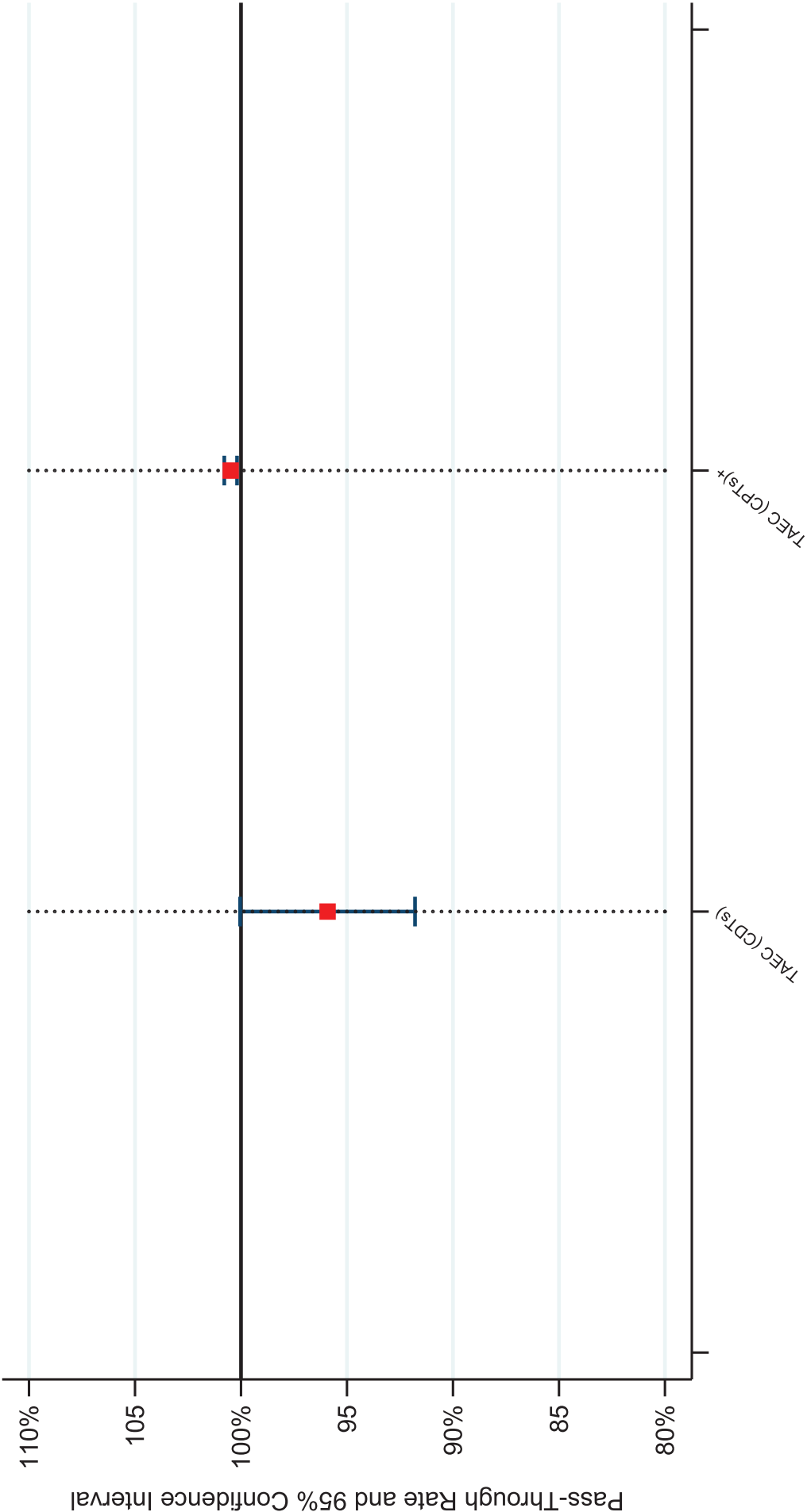


Econometric Study

Note: + The pass-through rate is statistically greater than 100%.
Source Files: See Exhibit 71.

Tubes Pass-Through

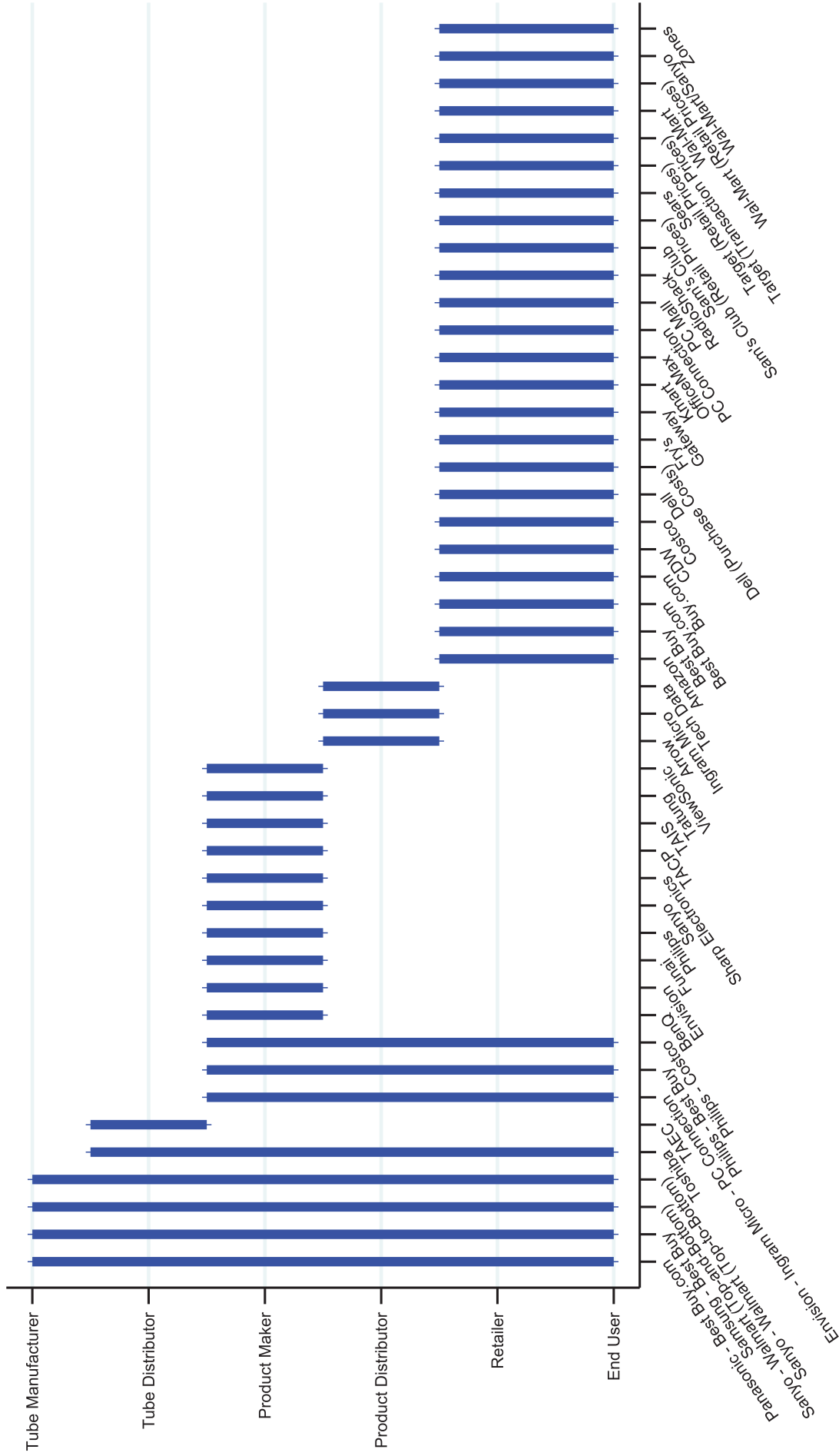
Calculated Pass-Through Rates and 95% Confidence Intervals



Econometric Study

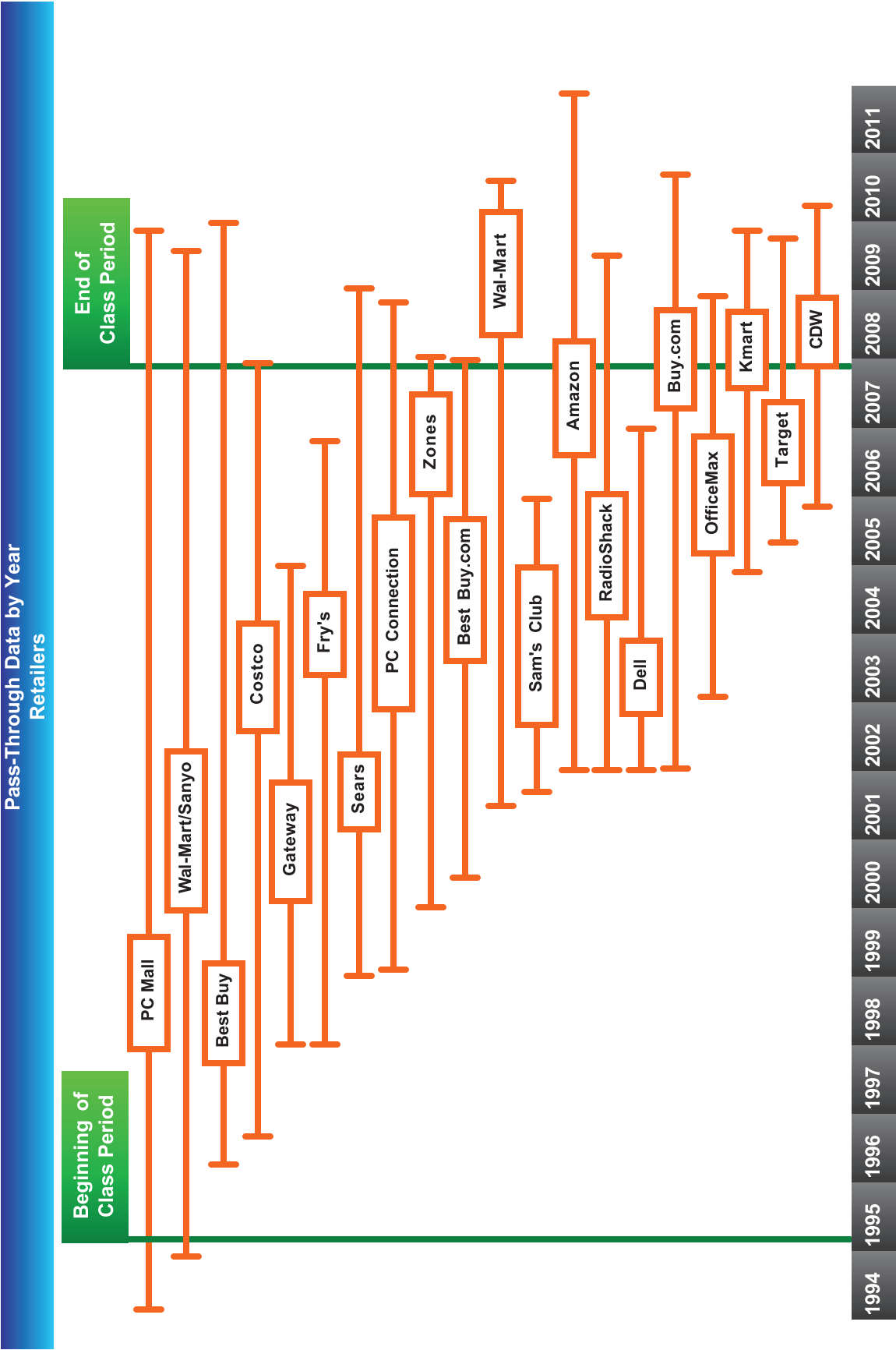
Note: + The pass-through rate is statistically greater than 100%.
Source Files: See Exhibit 71.

Pass-Through Studies Channel Coverage



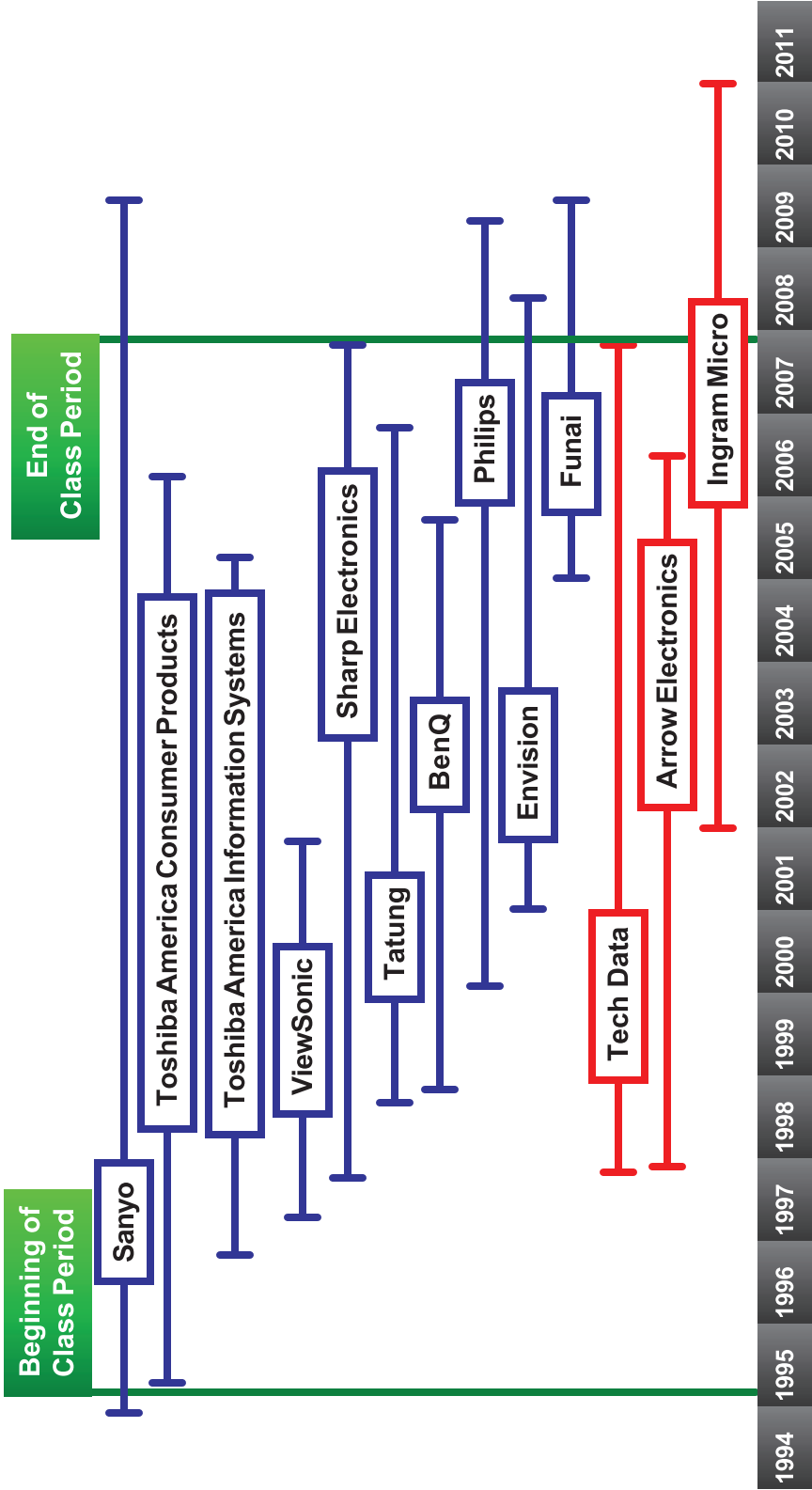
Econometric Study

Source Files: See Exhibit 71.



Source File(s):
See Exhibit 71.

Pass-Through Data by Year
Product Makers and Product Distributors

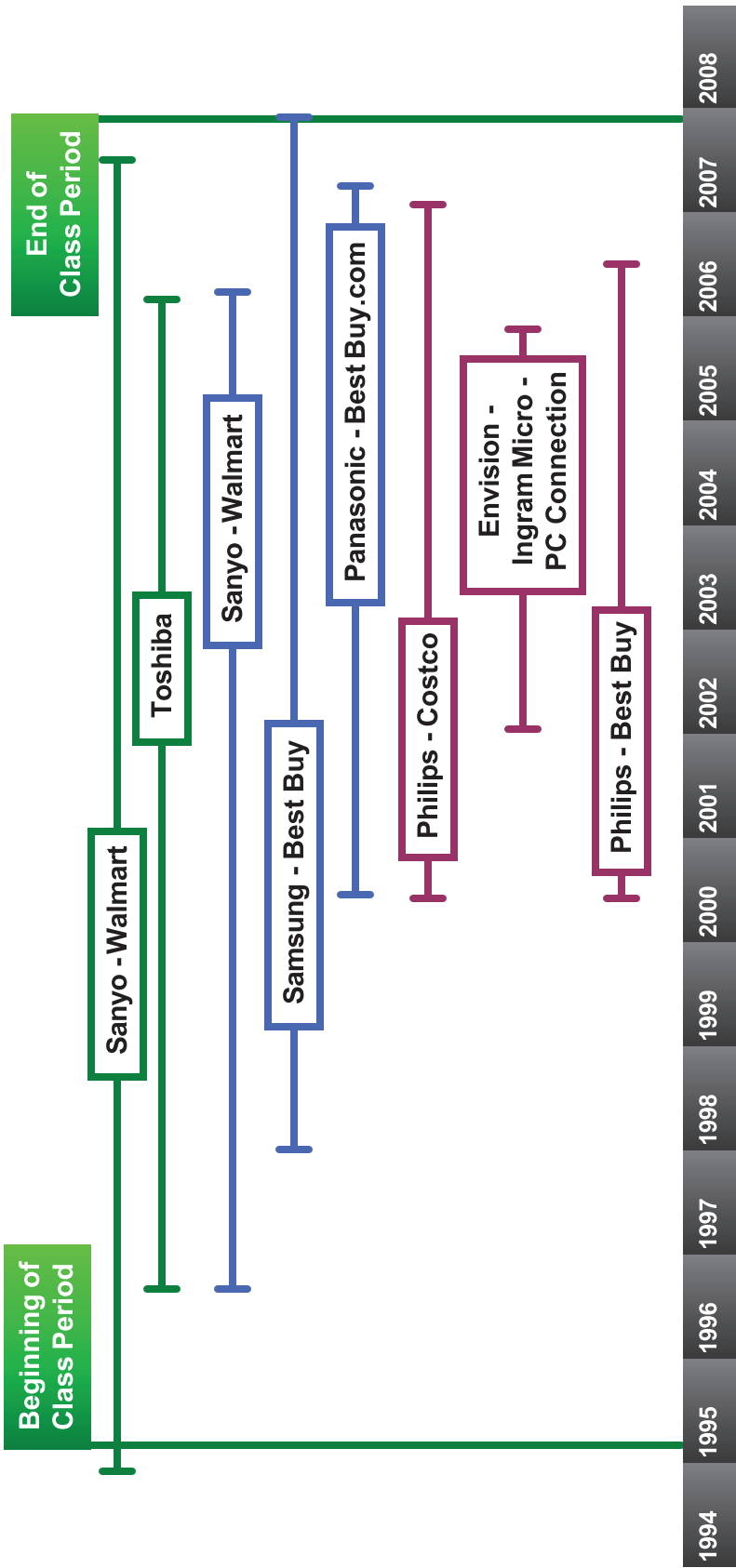


Note(s):
Blue indicates product makers.
Red indicates product distributors.

Source File(s):
See Exhibit 71.

Pass-Through Data by Year

Top-and-Bottom, Top-to-Bottom, and Multi-Level Studies



Note(s):
Blue indicates top-and-bottom studies.
Green indicates top-to-bottom studies.
Purple indicates multi-level studies.

Source File(s):
See Exhibit 71.

Class Share of Worldwide CRT Revenues

Year	North American Share of Worldwide Sales		U.S. Share of North America	Non-Government Share of U.S.	Class States' Share of U.S.	Class Members' Share of Worldwide Sales	
	CDT	CPT				CDT	CPT
1995	38.7%	17.2%	92.3%	92.8%	44.9%	14.9%	6.6%
1996	38.7%	17.2%	92.5%	92.8%	44.9%	14.9%	6.6%
1997	38.7%	17.2%	92.4%	93.4%	44.9%	15.0%	6.7%
1998	38.7%	17.2%	92.5%	93.5%	45.0%	15.0%	6.7%
1999	38.7%	17.8%	92.6%	93.0%	45.0%	15.0%	6.9%
2000	37.6%	16.0%	92.8%	93.6%	45.2%	14.7%	6.3%
2001	33.9%	15.8%	92.8%	93.8%	45.2%	13.3%	6.2%
2002	33.9%	15.5%	92.7%	92.6%	45.2%	13.2%	6.0%
2003	28.0%	15.2%	92.7%	92.9%	45.3%	10.9%	5.9%
2004	27.6%	14.9%	92.8%	92.9%	45.3%	10.8%	5.8%
2005	20.3%	14.3%	92.7%	93.5%	45.4%	8.0%	5.6%
2006	12.4%	12.0%	92.6%	93.3%	45.4%	4.9%	4.7%
2007	6.9%	5.1%	92.5%	93.2%	45.3%	2.7%	2.0%
Average	35.6%	15.6%	92.6%	93.2%	45.1%	13.8%	6.1%

Note(s):

Averages are revenue-weighted across all years.

Data Source(s): See Exhibit 84.

Source File(s): total_damages_exhibits.xlsx

total_damages_exhibits.do

total_damages.do

quantity_database.do

average_price.do

class_shares.do

cdt_size_share.do

cpt_size_share.do

defendant_cdt_share.do

defendant_cpt_share.do

worldwide_production.do

total_production.do

dta_creator.do

Class CRT Expenditures by Product Type and Defendant Status

Year	CDT Expenditures by Class Members			CPT Expenditures by Class Members			Total Expenditures by Class Members
	Defendants	Co-conspirators	Total	Defendants	Co-conspirators	Total	
1995	961,205,077	26,884,116	988,089,193	553,717,400	99,775,612	653,493,012	1,641,582,205
1996	1,282,560,433	73,443,349	1,356,003,782	735,477,070	132,749,575	868,226,645	2,224,230,427
1997	1,135,139,290	64,340,442	1,199,479,732	724,676,235	130,406,330	855,082,565	2,054,562,297
1998	935,195,531	43,861,623	979,057,154	695,134,165	126,032,051	821,166,215	1,800,223,370
1999	1,142,447,326	57,027,028	1,199,474,354	680,928,263	116,987,597	797,915,860	1,997,390,213
2000	1,217,064,212	98,015,652	1,315,079,864	642,518,554	173,050,491	815,569,045	2,130,648,908
2001	663,213,636	35,224,194	698,437,830	580,235,022	110,977,776	691,212,798	1,389,650,629
2002	562,837,894	22,395,828	585,233,722	515,780,130	110,640,257	626,420,387	1,211,654,109
2003	330,084,825	9,657,293	339,742,118	511,130,700	107,144,743	618,275,442	958,017,560
2004	320,351,705	2,562,904	322,914,610	549,081,791	90,043,368	639,125,159	962,039,769
2005	153,611,074	0	153,611,074	417,717,958	66,326,671	484,044,628	637,655,702
2006	56,079,170	0	56,079,170	288,354,349	46,095,121	334,449,470	390,528,640
2007	15,622,368	0	15,622,368	88,597,501	14,044,303	102,641,804	118,264,172
Total	\$ 8,775,412,542	\$ 433,412,429	\$ 9,208,824,971	\$ 6,983,349,136	\$ 1,324,273,893	\$ 8,307,623,030	\$ 17,516,448,001

Note(s): Defendants include BMCC, Chungghwa, Daewoo/Orion, Hitachi, IRICO, LG Electronics, LPD, Matsushita, MTPD, Philips, Samsung, Samtel, Thai CRT, Toshiba, and Videocon/Technologies Displays. Co-conspirators include Mitsubishi, Thomson, and Videocon.

Data Source(s): See Exhibit 84.

Source File(s): total_damages_exhibits.xlsx

total_damages_exhibits.do

total_damages.do

quantity_database.do

average_price.do

class_shares.do

cdt_size_share.do

cpt_size_share.do

defendant_cdt_share.do

defendant_cpt_share.do

worldwide_production.do

total_production.do

dta_creator.do

Nominal Damages Suffered by Class Members

Year	CDT Damages			CPT Damages			Total Damages
	Defendants	Co-conspirators	Total	Defendants	Co-conspirators	Total	
1995	239,930,684	6,710,664	246,641,348	52,405,565	9,443,079	61,848,644	308,489,993
1996	320,145,627	18,332,522	338,478,149	69,607,875	12,563,839	82,171,714	420,649,863
1997	283,347,178	16,060,305	299,407,483	68,585,650	12,342,067	80,927,717	380,335,200
1998	233,438,325	10,948,495	244,386,821	65,789,695	11,928,072	77,717,766	322,104,587
1999	285,171,370	14,234,771	299,406,140	64,445,203	11,072,076	75,517,279	374,923,420
2000	303,796,823	24,466,124	328,262,947	60,809,987	16,378,045	77,188,032	405,450,980
2001	165,547,712	8,792,468	174,340,180	54,915,277	10,503,288	65,418,564	239,758,745
2002	140,492,476	5,590,322	146,082,798	48,815,062	10,471,344	59,286,406	205,369,204
2003	82,393,945	2,410,600	84,804,545	48,375,025	10,140,517	58,515,542	143,320,087
2004	79,964,417	639,738	80,604,155	51,966,836	8,521,989	60,488,825	141,092,981
2005	38,343,545	0	38,343,545	39,534,148	6,277,366	45,811,514	84,155,059
2006	13,998,172	0	13,998,172	27,290,767	4,362,588	31,653,355	45,651,527
2007	1,915,358	0	1,915,358	2,799,726	443,807	3,243,533	5,158,891
Total	\$ 2,188,485,633	\$ 108,186,008	\$ 2,296,671,641	\$ 655,340,815	\$ 124,448,077	\$ 779,788,893	\$ 3,076,460,534

Note(s): Defendants include BMCC, Chunghwa, Daewoo/Orion, Hitachi, IRICO, LG Electronics, LPD, Matsushita, MTPD, Philips, Samsung, Samtel, Thai CRT, Toshiba, and Videocon/Technologies Displays. Co-conspirators include Mitsubishi, Thomson, and Videocon.

Data Source(s): See Exhibit 84.

Source File(s): total_damages_exhibits.xlsx

total_damages_exhibits.do

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class_shares.do

cdt_size_share.do

cpt_size_share.do

defendant_cdt_share.do

defendant_cpt_share.do

worldwide_production.do

total_production.do

dta_creator.do

CRT Production and Market Shares Data Sources

	Tube Type					
	Dates Used	Used	Subdivision	Granularity		
Defendant Production						
Hitachi Displays, 2002, Untitled Spreadsheet, HDP-CRT00019322.	H1 1991 - H2 1999	CPT, CDT	Industry total quantities; Hitachi total quantities	Semi-annually		
MT Picture Display, November 2006, Untitled Spreadsheet, MTPD-0416090.	Q1 2000 - Q4 2006	CPT	Quantities by Manufacturer	Quarterly		
Samsung, 11 December 2003, Worldwide CDT Manufacturer's Status, SDCRT-0201291.	Q1 1998 - Q4 2000	CDT	Quantities by Manufacturer	Quarterly		
Undated, CDT maker sales, CHU00071226.	Q1 - Q4 2001	CDT	Quantities by Manufacturer	Quarterly		
Third Party						
DisplaySearch, 2003, DisplaySearch Quarterly Desktop Monitor Shipment and Forecast Report Q1'03, CHWA00106460 - CHWA00106757.	Q1 - Q4 2002	CDT	By Manufacturer	Quarterly		
DisplaySearch, 2003, Quarterly Desktop Monitor Shipment and Forecast Report, CHWA00062147 - CHWA00062569.	Q1 - Q4 2003	CDT	By Manufacturer	Quarterly		
DisplaySearch, 07 July 2005, Q2'05 Quarterly Desktop Monitor Shipment and Forecast Report, CHWA00088192 - CHWA00088762.	Q2 2004 - Q1 2005	CDT	By Manufacturer	Quarterly		
DisplaySearch, 30 September 2005, Q3'05 Quarterly Desktop Monitor Shipment and Forecast Report, CHU00281352 - CHU00281923.	Q2 2005	CDT	Shares by Manufacturer; quantities by size	Quarterly		
DisplaySearch, 30 March 2007, Q1'07 Quarterly Desktop Monitor Shipment and Forecast Report, CHU00154037 - CHU00154420.	Q3 2005 - Q4 2006	CDT	Shares by Manufacturer; quantities by size	Quarterly		

Direct Overcharge Data Sources

CRT Price & Quantity Data

Defendant data, see Exhibit 64.

Demand Data

Organisation for Economic Co-operation and Development, 03 January 2014, Quarterly National Accounts, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=90#>, accessed 03 January 2014.

Organisation for Economic Co-operation and Development, 03 January 2014, Key Short-Term Economic Indicators: Harmonised Unemployment Rate, OECD.StatExtracts, <http://stats.oecd.org/index.aspx?queryid=21760>, accessed 03 January 2014.

LCD Data

DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.

Glass Price Data

The Bank of Korea, Undated, Producer Price Indexes Bank of Korea, http://ecos.bok.or.kr/flex/EasySearch_e.jsp, accessed 10 October 2013.

Total Damages Data Sources

Worldwide quantity and Defendant market shares

CPT, Du, Ching-Yuan (Michael), 22 September 1995, Customer Contact Report, CHU00028310.
DisplaySearch, 07 July 2005, Q2'05 Quarterly Desktop Monitor Shipment and Forecast Report, CHWA0008876.2 at 8484.
DisplaySearch, 2003, DisplaySearch Quarterly Desktop Monitor Shipment and Forecast Report Q1'03, CHWA00106460 - CHWA00106757, at 6730.
DisplaySearch, 2003, Quarterly Desktop Monitor Shipment and Forecast Report, CHWA00062147 - CHWA00062569, at 2427.
DisplaySearch, 30 March 2007, Q1'07 Quarterly Desktop Monitor Shipment and Forecast Report, CHU00154037 - CHU00154420, at 4389 - 4390.
DisplaySearch, 30 September 2005, Q3'05 Quarterly Desktop Monitor Shipment and Forecast Report, CHU00281352 - CHU00281923, at 1644 - 1645.
Hitachi Displays, 2002, Untitled Spreadsheet, HDP-CRT00019322.
LG Philips Displays, 02 December 2003, LG.Philips Displays to restructure its European industrial production infrastructure, PHLP-CRT-001323 - PHLP-CRT-001556, at 1370.
MT Picture Display, November 2006, Untitled Spreadsheet, MTPD-0416090, at Tab 'Supply DB'.
Samsung, 11 December 2003, Worldwide CDT Manufacturer's Status, SDCRT-0201291.
Undated, CDT maker sales, CHU00071226.

Class share of worldwide market

Census Bureau, 29 December 1999, 1990 to 1999 State Population Estimates, <http://www.census.gov/popest/archives/1990s/ST-99-03.txt>, accessed 22 May 2009
Census Bureau, December 2009, Population, population change and estimated components of population change: April 1, 2000 to July 1, 2009 (NST-EST2009-alldata), http://www.census.gov/popest/national/files/NST_EST2009_ALLDATA.csv, accessed 19 May 2011.
DisplaySearch, May 2011, Analysis Group, Inc. Custom Data Project, DISP_LCD_000129.
Japanese Electronics and IT Industries Association, June 2001, Worldwide CPT Demand by Area, HDP-CRT00057341.
OECD.StatExtracts, Undated, National Accounts, http://stats.oecd.org/Index.aspx?DataSetCode=SNA_TABLE1, accessed 01 October 2013.
Bureau of Economic Analysis, 28 April 2011, Final Sales of Domestic Computers, <http://www.bea.gov/>, accessed 01 October 2013.

Size-weighted average prices

[all_defendants_dropexout_collapsed.dta](#). See Exhibit 64 for underlying sources.
28 August 2000, Philips Display Components North America: 1998 - 2002 Strategy Review, FOX00007278.
MT Picture Display, November 2006, Untitled Spreadsheet, MTPD-0416090, at Tab 'Supply DB'.
Samsung, 11 December 2003, Worldwide CDT Manufacturer's Status, SDCRT-0201291.
DisplaySearch, 30 March 2007, Q1'07 Quarterly Desktop Monitor Shipment and Forecast Report, CHU00154037 - CHU00154420, at 4389 - 4390.
DisplaySearch, 30 September 2005, Q3'05 Quarterly Desktop Monitor Shipment and Forecast Report, CHU00281352 - CHU00281923, at 1644 - 1645.
DisplaySearch, 07 July 2005, Q2'05 Quarterly Desktop Monitor Shipment and Forecast Report, CHWA00088762, at 8484.